Figure 1

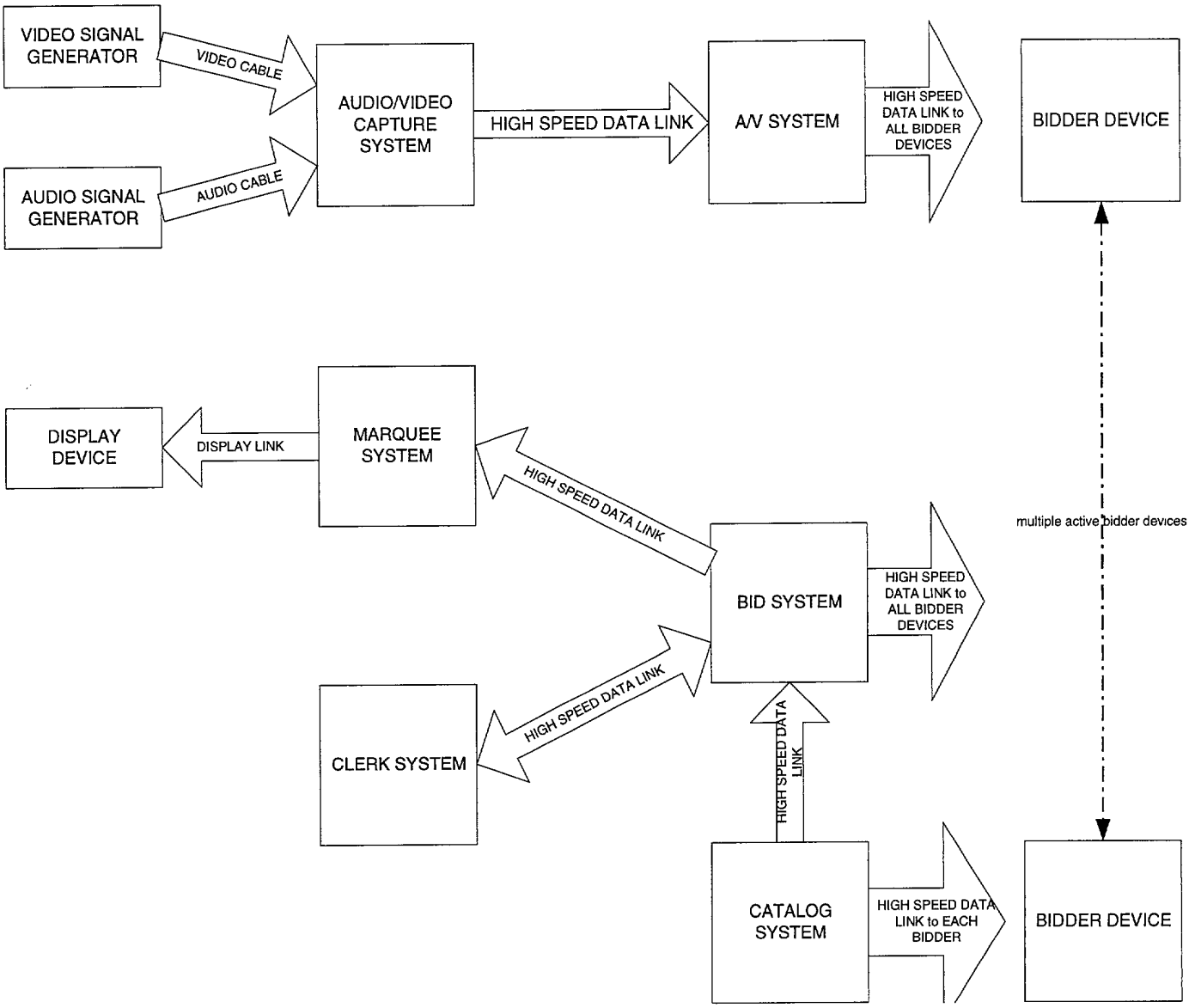
VIDEO SIGNAL GENERATOR
VIDEO CABLE
AUDIO SIGNAL GENERATOR
AUDIO CABLE
AUDIO/VIDEO CAPTURE SYSTEM
HIGH SPEED DATA LINK
A/V SYSTEM
HIGH SPEED DATA LINK to ALL BIDDER DEVICES
BIDDER DEVICE
multiple active bidder devices
DISPLAY DEVICE
DISPLAY LINK
MARQUEE SYSTEM
HIGH SPEED DATA LINK
BID SYSTEM
HIGH SPEED DATA LINK to ALL BIDDER DEVICES
CLERK SYSTEM
HIGH SPEED DATA LINK
HIGH SPEED DATA LINK
CATALOG SYSTEM
HIGH SPEED DATA LINK to EACH BIDDER
BIDDER DEVICE

Figure 2

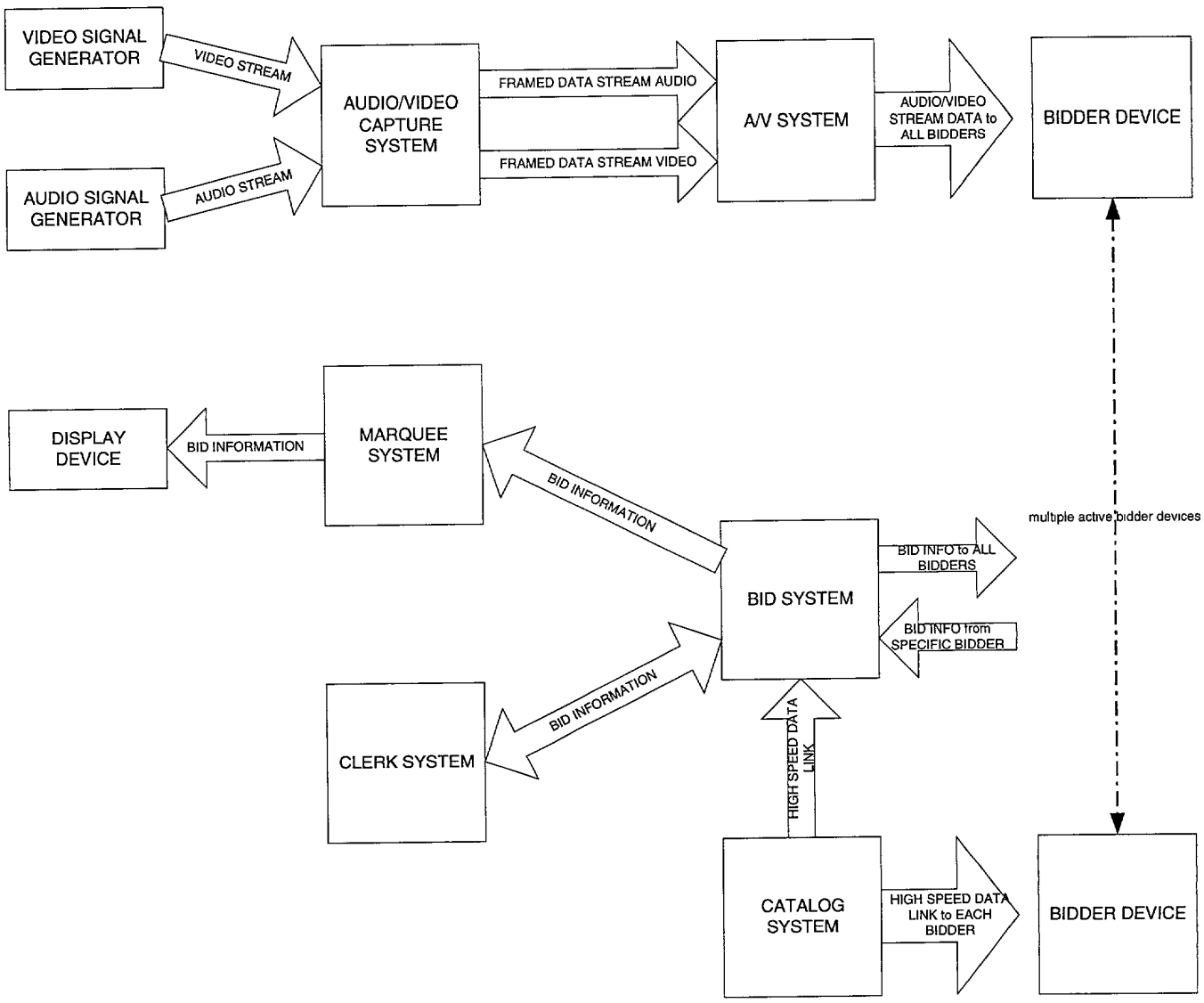

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Figure 3

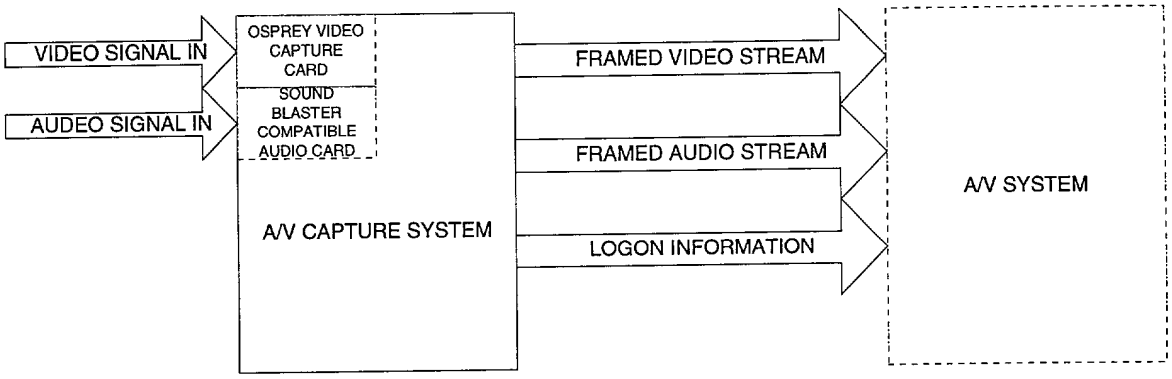

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Figure 4

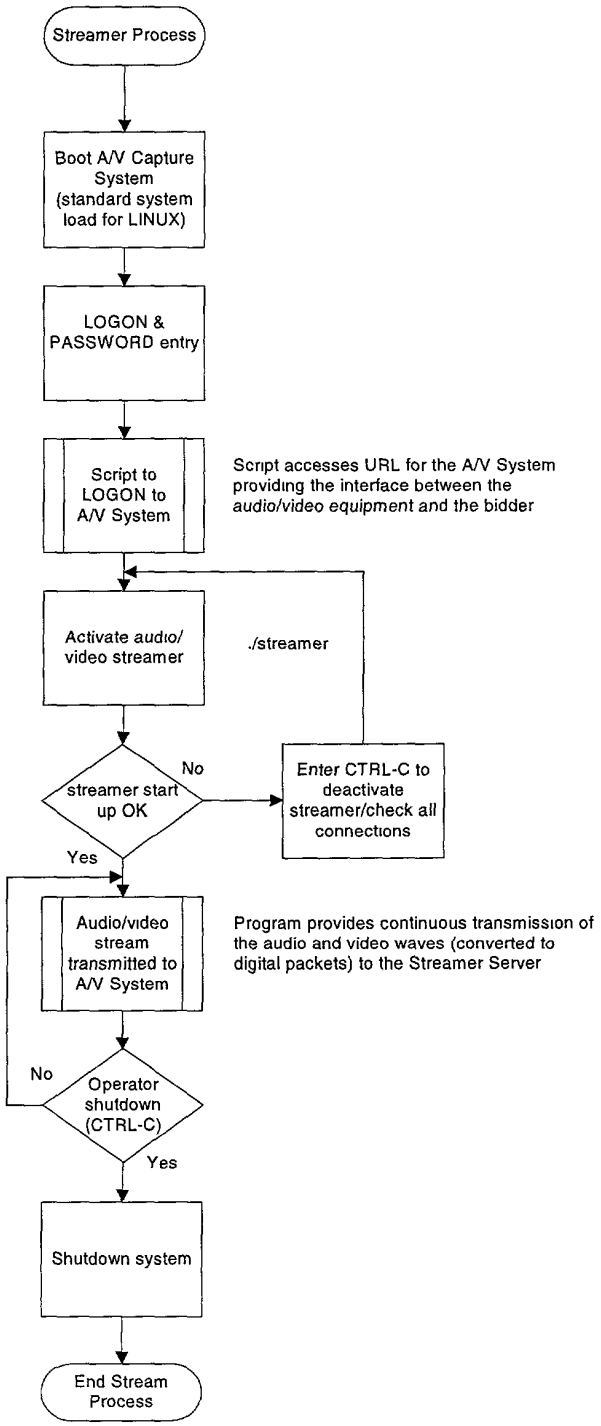

Streamer Process
Boot A/V Capture System (standard system load for LINUX)
LOGON & PASSWORD entry
Script to LOGON to A/V System
Script accesses URL for the A/V System providing the interface between the audio/video equipment and the bidder
Activate audio/ video streamer
./streamer
streamer start up OK
No
Enter CTRL-C to deactivate streamer/check all connections
Yes
Audio/video stream transmitted to A/V System
Program provides continuous transmission of the audio and video waves (converted to digital packets) to the Streamer Server
No
Operator shutdown (CTRL-C)
Yes
Shutdown system
End Stream Process

Figure 5

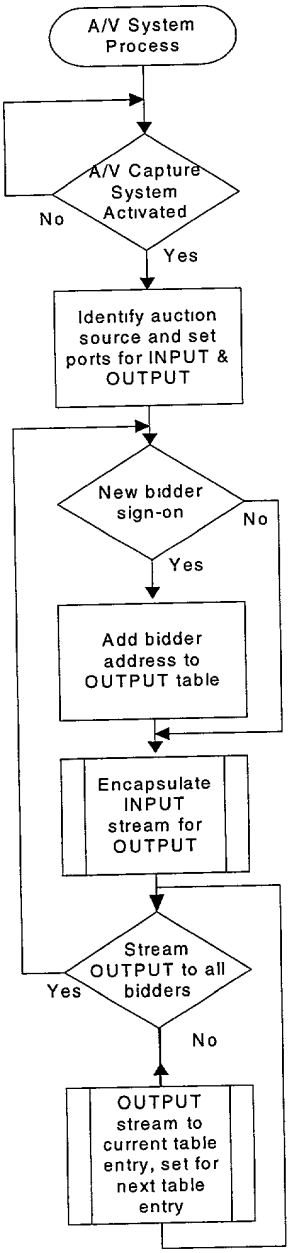

A/V System Process
A/V Capture System Activated
No
Yes
Identify auction source and set ports for INPUT & OUTPUT
New bidder sign-on
No
Yes
Add bidder address to OUTPUT table
Encapsulate INPUT stream for OUTPUT
Stream OUTPUT to all bidders
Yes
No
OUTPUT stream to current table entry, set for next table entry

Figure 6

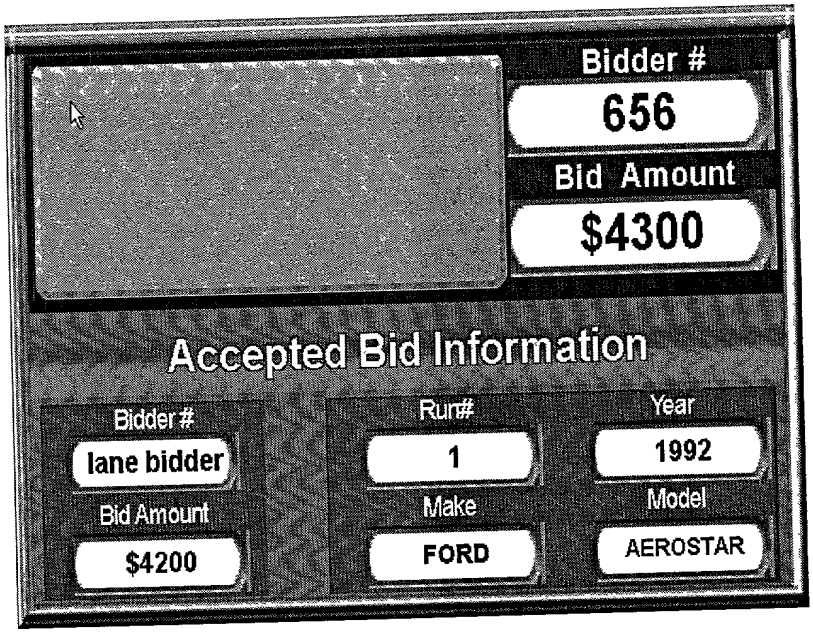


Figure 6A

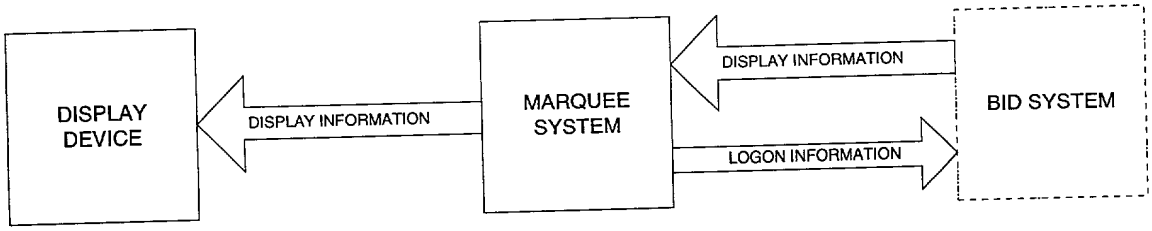


Figure 7

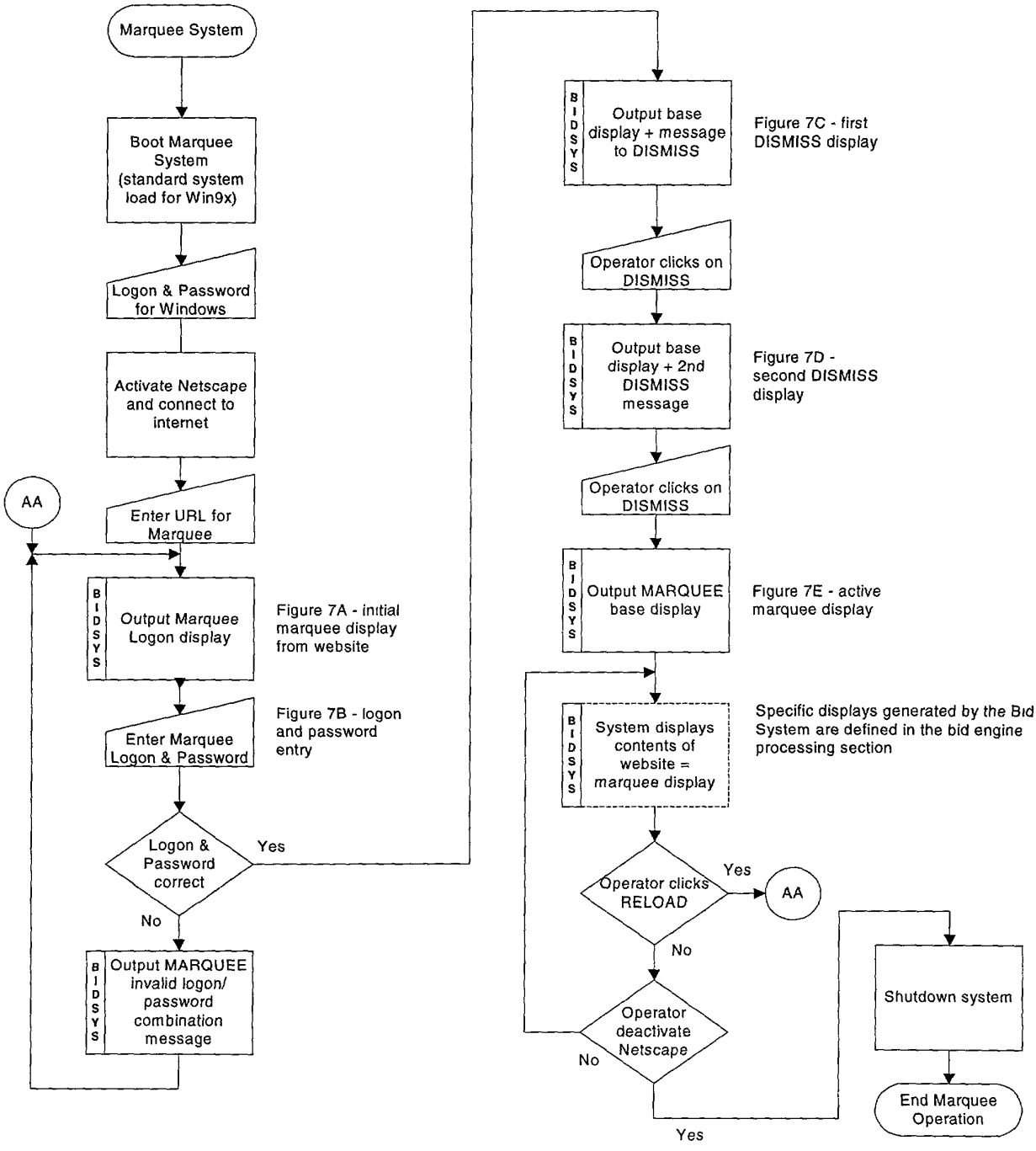

Marquee System
Boot Marquee System (standard system load for Win9x)
Logon & Password for Windows
Activate Netscape and connect to internet
AA
Enter URL for Marquee
BIDSYS
Output Marquee Logon display
Figure 7A - initial marquee display from website
Enter Marquee Logon & Password
Figure 7B - logon and password entry
Logon & Password correct
Yes
No
BIDSYS
Output MARQUEE invalid logon/ password combination message
BIDSYS
Output base display + message to DISMISS
Figure 7C - first DISMISS display
Operator clicks on DISMISS
BIDSYS
Output base display + 2nd DISMISS message
Figure 7D - second DISMISS display
Operator clicks on DISMISS
BIDSYS
Output MARQUEE base display
Figure 7E - active marquee display
BIDSYS
System displays contents of website = marquee display
Specific displays generated by the Bid System are defined in the bid engine processing section
Operator clicks RELOAD
Yes
AA
No
Operator deactivate Netscape
No
Yes
Shutdown system
End Marquee Operation

Figure 7A

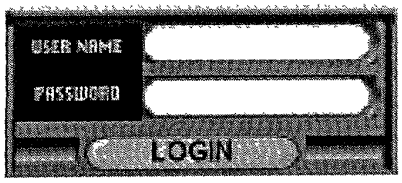


Figure 7B

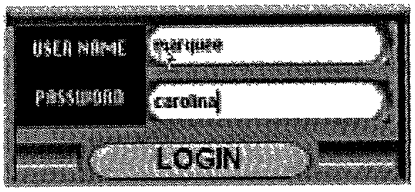


Figure 7C

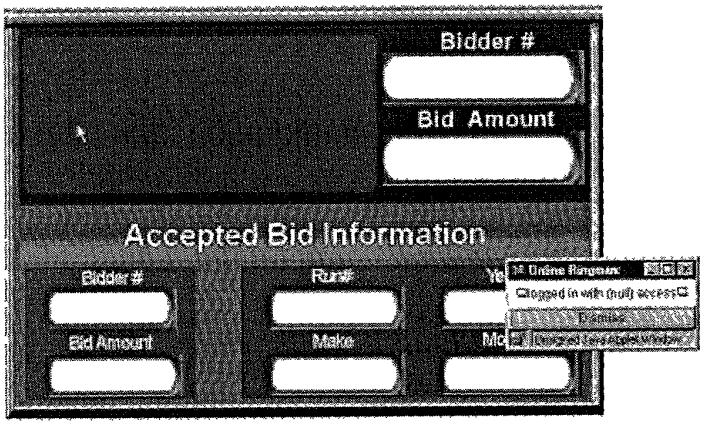


Figure 7D

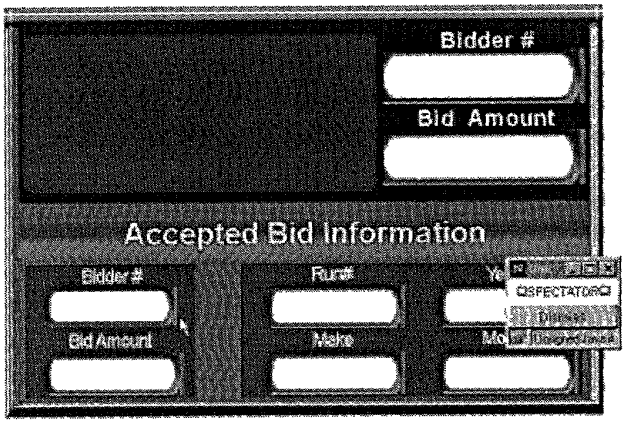
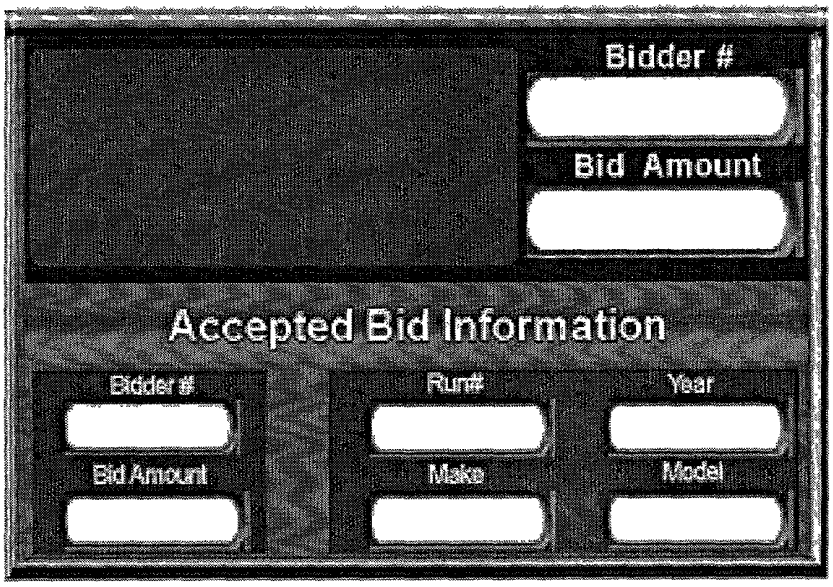


Figure 7E



D3D3L3L-D3D3D3L

Figure 8A

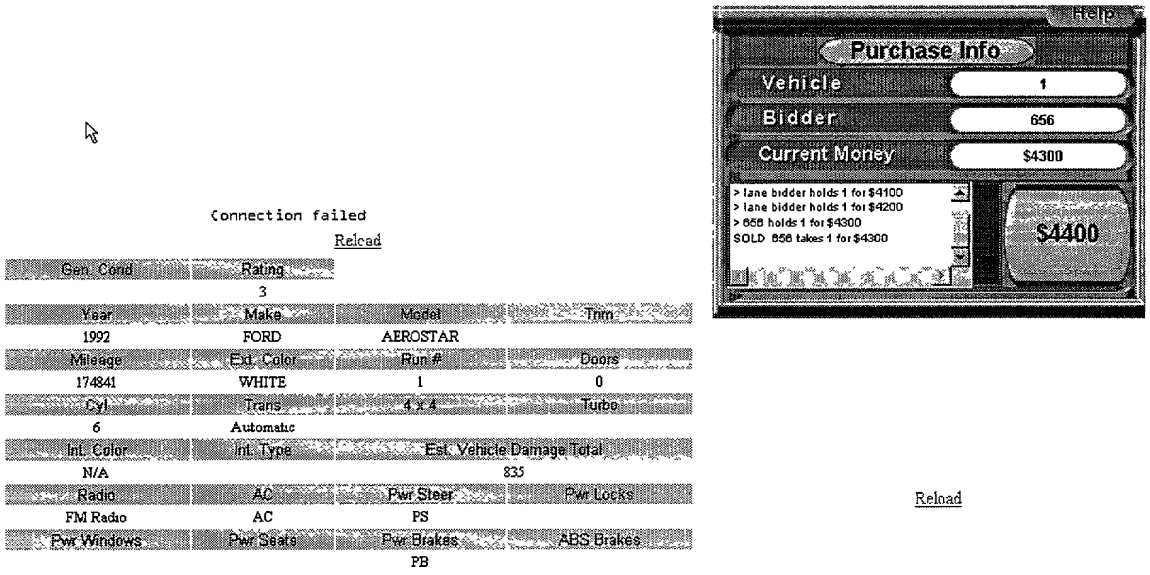


Figure 8B

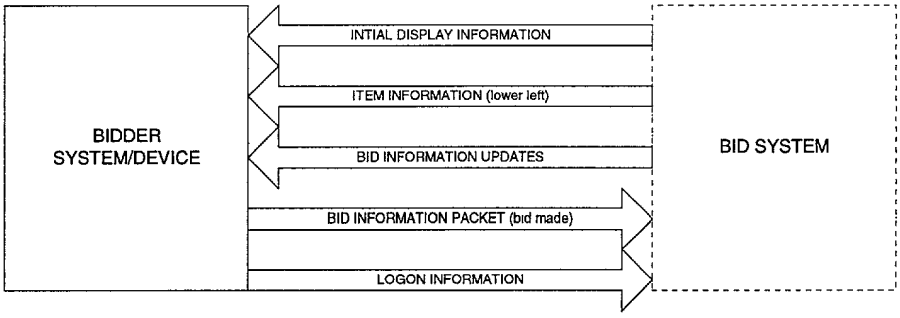


Figure 9

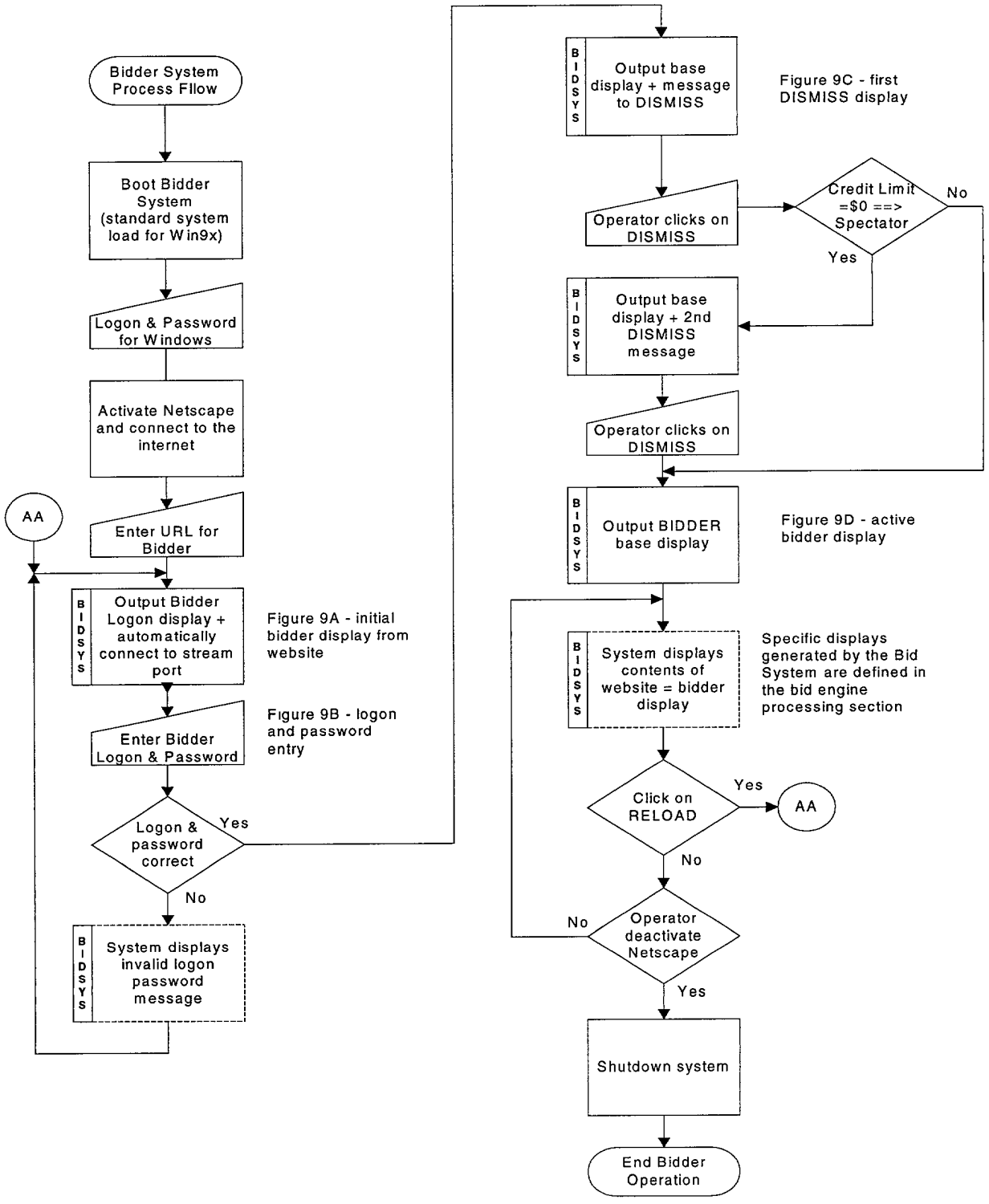

Bidder System Process Fllow
Boot Bidder System (standard system load for Win9x)
Logon & Password for Windows
Activate Netscape and connect to the internet
AA
Enter URL for Bidder
BIDSYS
Output Bidder Logon display + automatically connect to stream port
Figure 9A - initial bidder display from website
Enter Bidder Logon & Password
Figure 9B - logon and password entry
Logon & password correct
Yes
No
BIDSYS
System displays invalid logon password message
BIDSYS
Output base display + message to DISMISS
Figure 9C - first DISMISS display
Operator clicks on DISMISS
Credit Limit =$0 ==> Spectator
No
Yes
BIDSYS
Output base display + 2nd DISMISS message
Operator clicks on DISMISS
BIDSYS
Output BIDDER base display
Figure 9D - active bidder display
BIDSYS
System displays contents of website = bidder display
Specific displays generated by the Bid System are defined in the bid engine processing section
Click on RELOAD
Yes
AA
No
Operator deactivate Netscape
No
Yes
Shutdown system
End Bidder Operation

Figure 9A

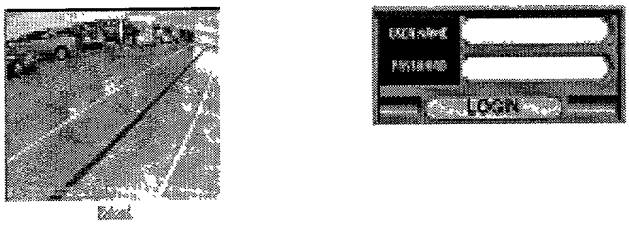


Figure 9B

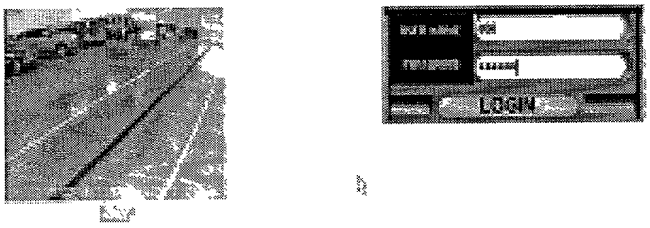


Figure 9C

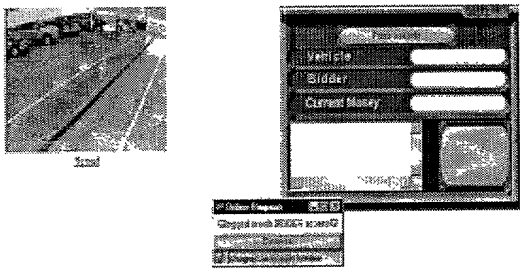


Figure 9D

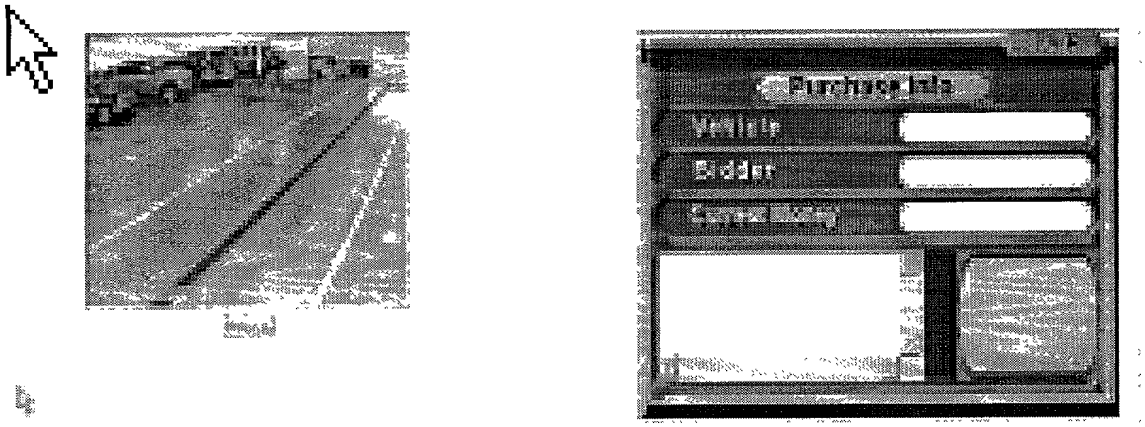
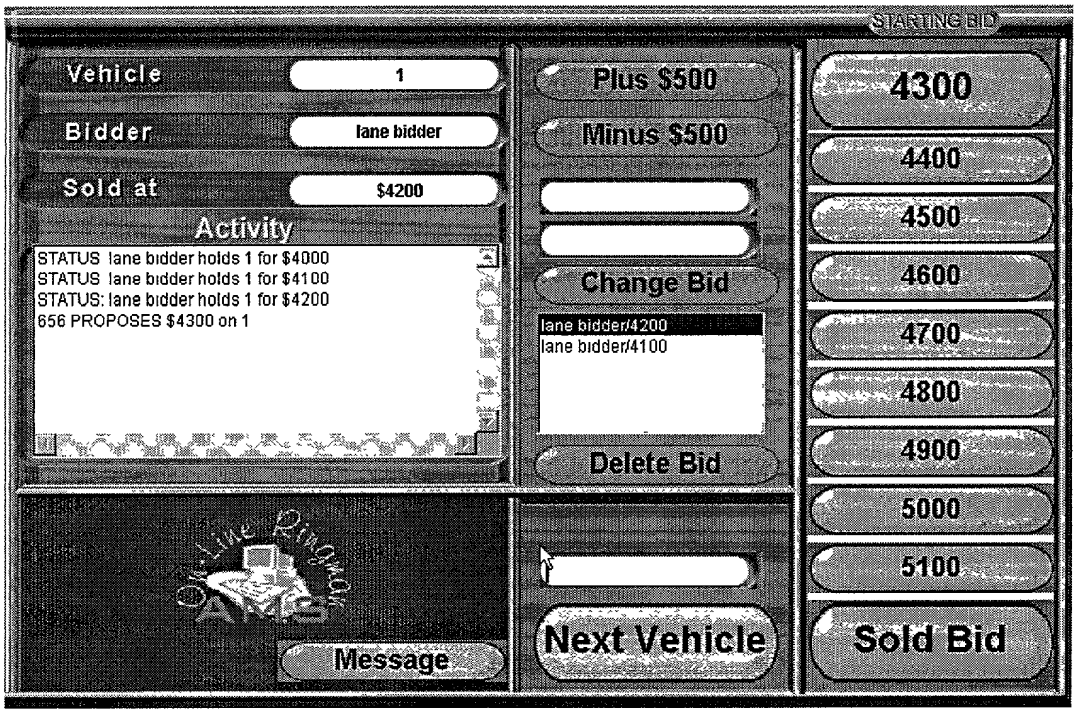


Figure 10A



Reload

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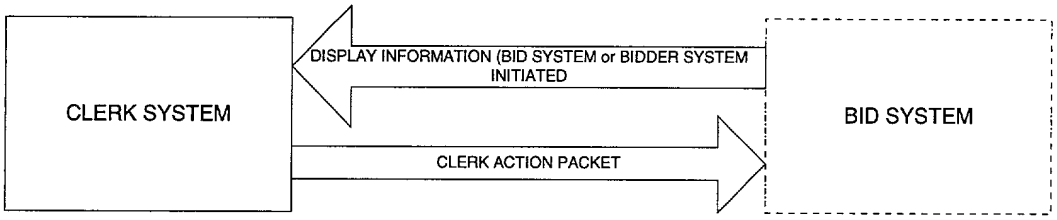
Figure 10B



Doc No. 3-0904

Figure 10C

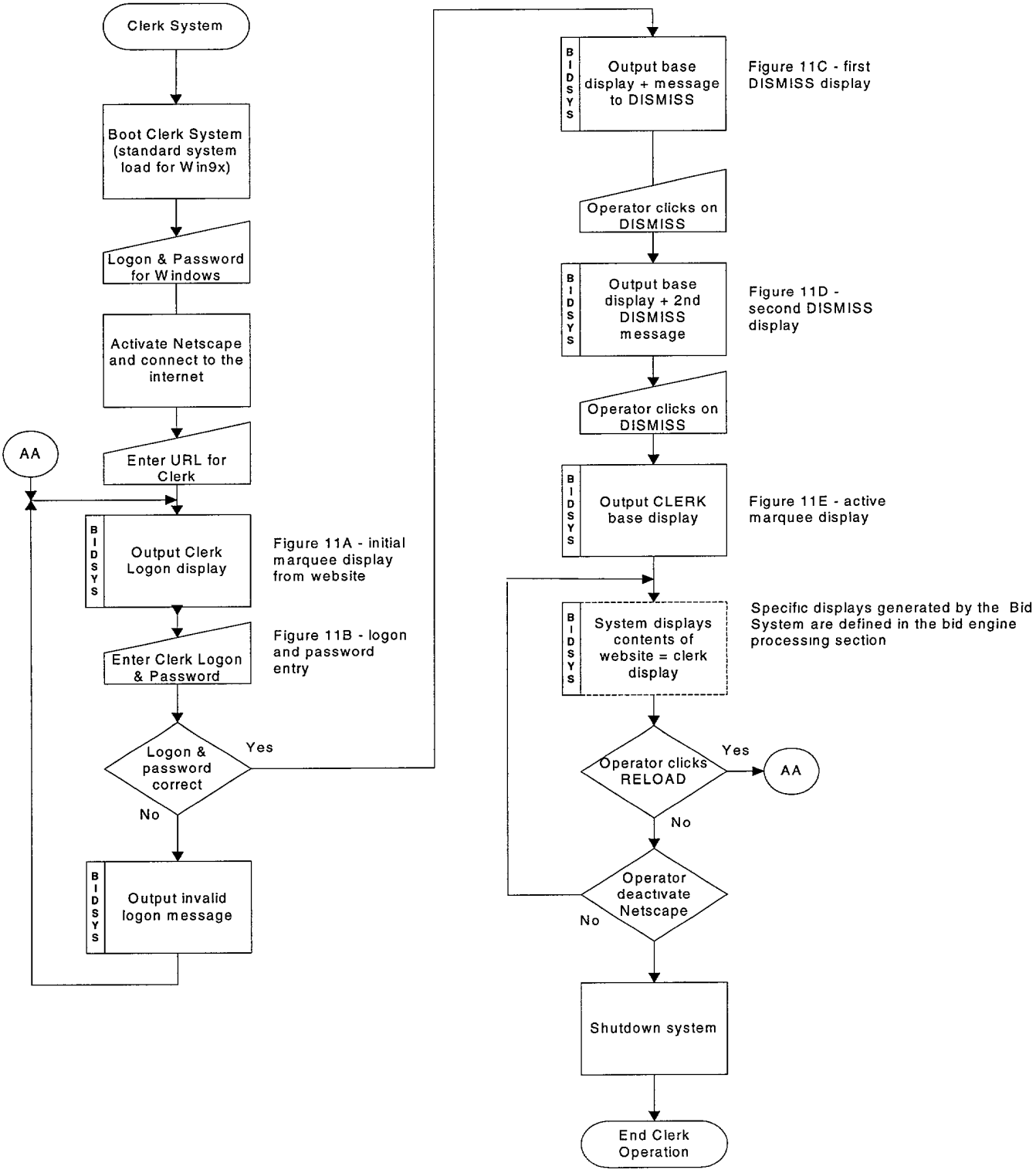

Clerk System
Boot Clerk System (standard system load for Win9x)
Logon & Password for Windows
Activate Netscape and connect to the internet
Enter URL for Clerk
AA
BIDSYS
Output Clerk Logon display
Figure 11A - initial marquee display from website
Enter Clerk Logon & Password
Figure 11B - logon and password entry
Logon & password correct
Yes
No
BIDSYS
Output invalid logon message
BIDSYS
Output base display + message to DISMISS
Figure 11C - first DISMISS display
Operator clicks on DISMISS
BIDSYS
Output base display + 2nd DISMISS message
Figure 11D - second DISMISS display
Operator clicks on DISMISS
BIDSYS
Output CLERK base display
Figure 11E - active marquee display
BIDSYS
System displays contents of website = clerk display
Specific displays generated by the Bid System are defined in the bid engine processing section
Operator clicks RELOAD
Yes
AA
No
Operator deactivate Netscape
No
Shutdown system
End Clerk Operation

Figure 11A

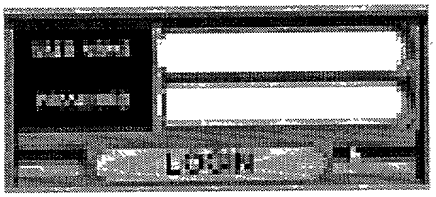


Figure 11B

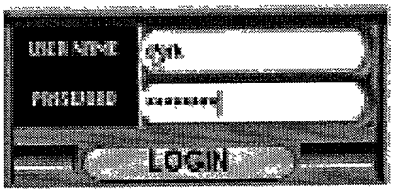


Figure 11C

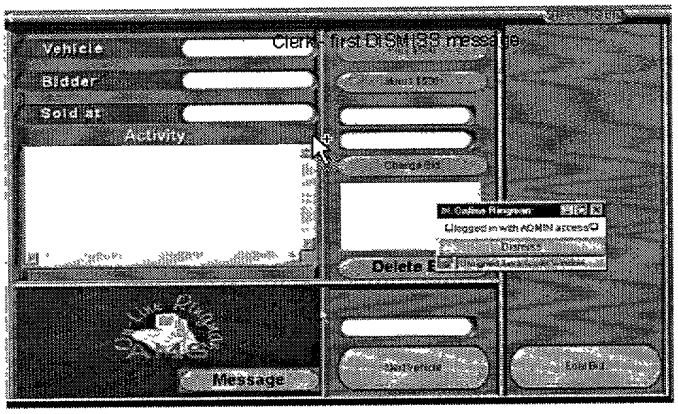


Figure 11D

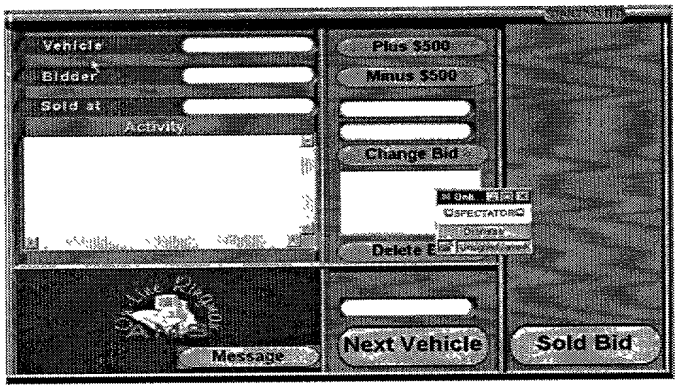
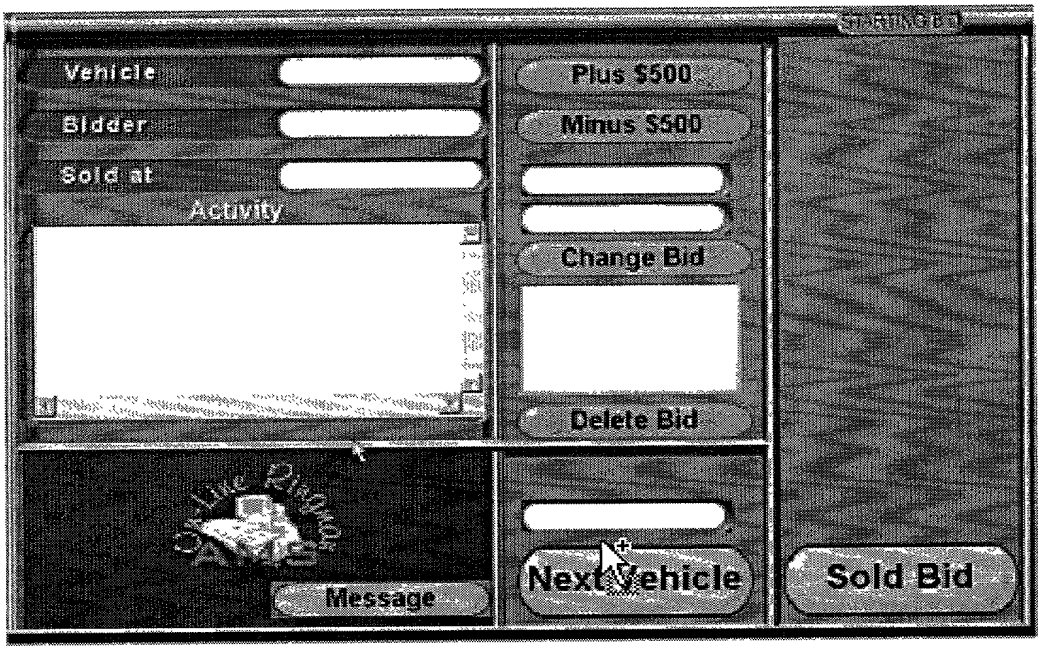


Figure 11E



Reload

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Figure 12

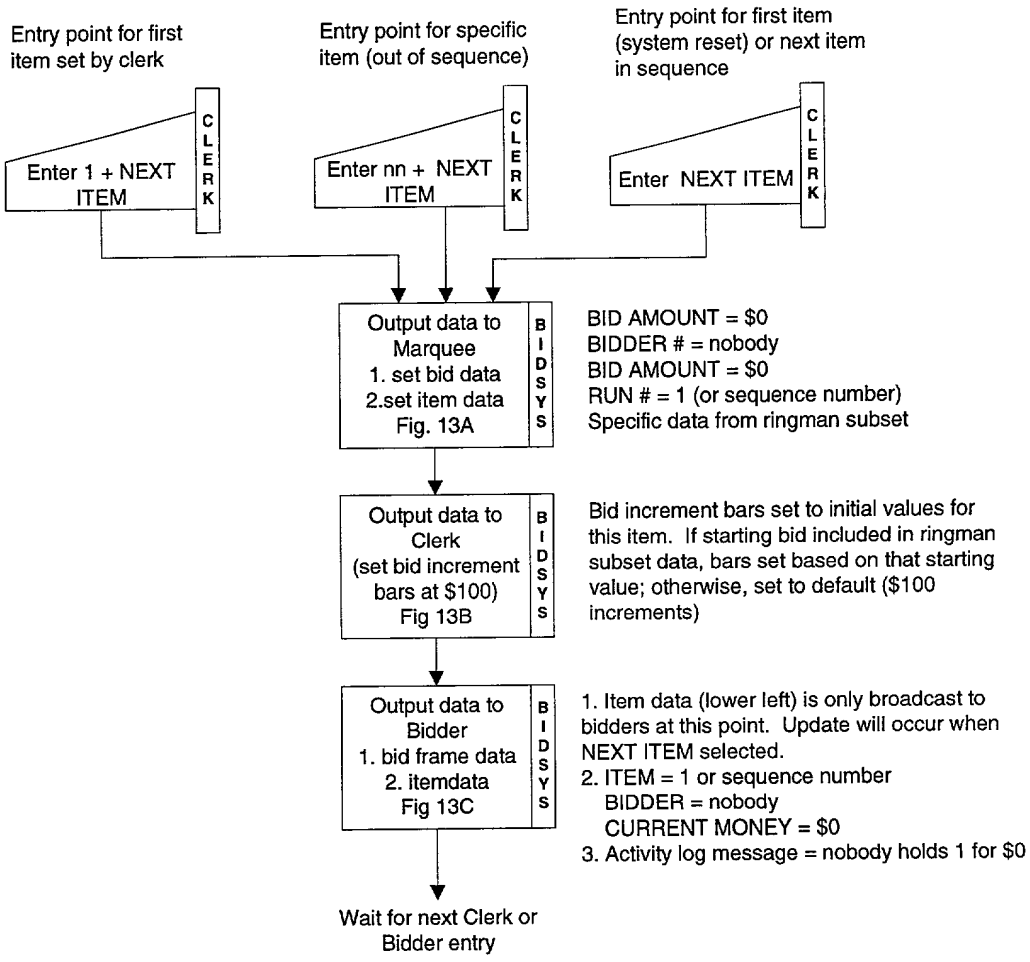

Entry point for first item set by clerk
Entry point for specific item (out of sequence)
Entry point for first item (system reset) or next item in sequence
Enter 1 + NEXT ITEM
Enter nn + NEXT ITEM
Enter NEXT ITEM
CLERK
Output data to Marquee
1. set bid data
2.set item data
Fig. 13A
BIDSYS
BID AMOUNT = $0
BIDDER # = nobody
BID AMOUNT = $0
RUN # = 1 (or sequence number)
Specific data from ringman subset
Output data to Clerk
(set bid increment bars at $100)
Fig 13B
Bid increment bars set to initial values for this item. If starting bid included in ringman subset data, bars set based on that starting value; otherwise, set to default ($100 increments)
Output data to Bidder
1. bid frame data
2. itemdata
Fig 13C
1. Item data (lower left) is only broadcast to bidders at this point. Update will occur when NEXT ITEM selected.
2. ITEM = 1 or sequence number
BIDDER = nobody
CURRENT MONEY = $0
3. Activity log message = nobody holds 1 for $0
Wait for next Clerk or Bidder entry

Figure 13A

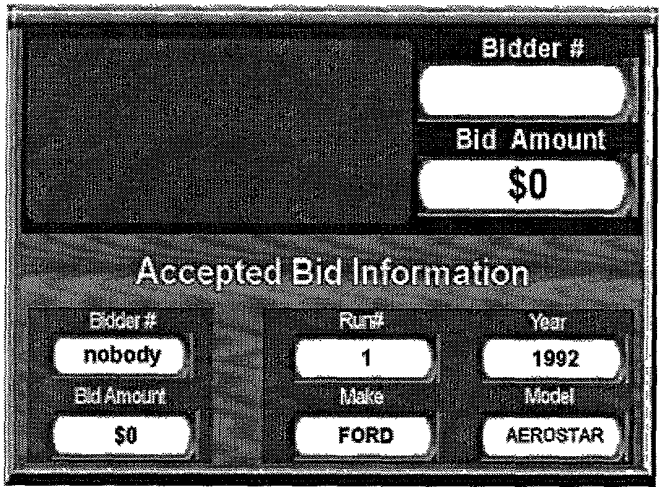


Figure 13B

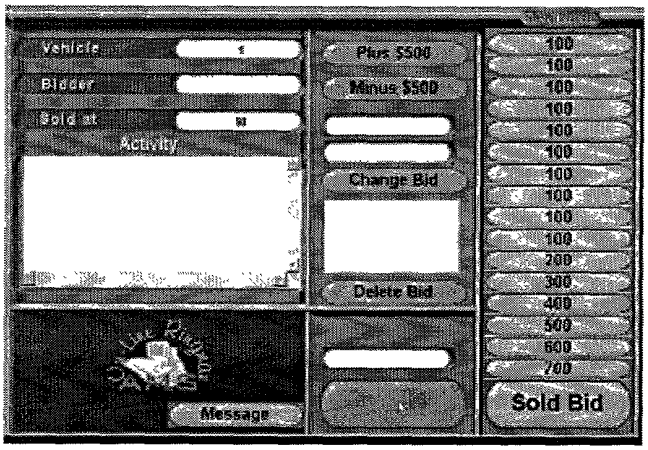
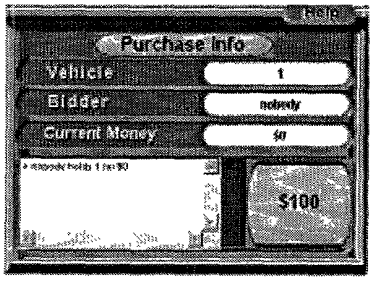
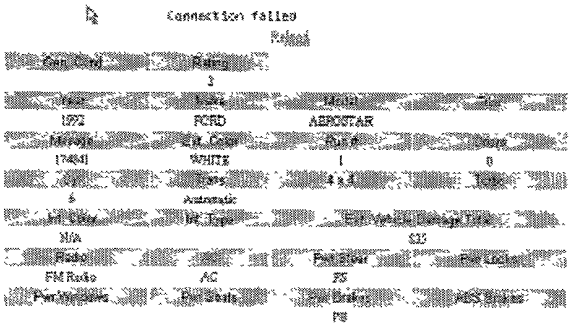


Figure 13C





D9858,802,B58B4

Figure 14

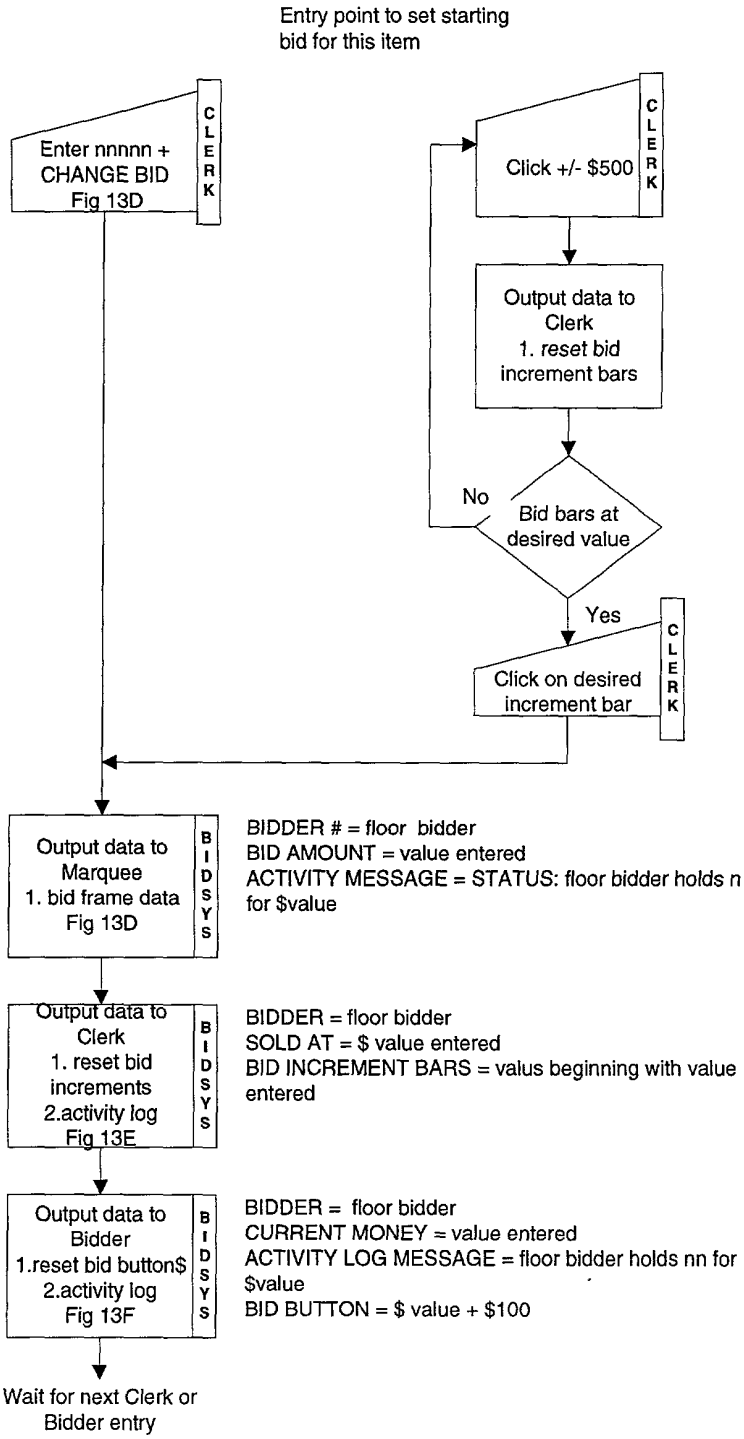

Entry point to set starting bid for this item
Enter nnnnn + CHANGE BID Fig 13D
CLERK
Click +/- $500
CLERK
Output data to Clerk 1. reset bid increment bars
No
Bid bars at desired value
Yes
Click on desired increment bar
CLERK
Output data to Marquee 1. bid frame data Fig 13D
BIDSYS
BIDDER # = floor bidder
BID AMOUNT = value entered
ACTIVITY MESSAGE = STATUS: floor bidder holds n for $value
Output data to Clerk 1. reset bid increments 2.activity log Fig 13E
BIDSYS
BIDDER = floor bidder
SOLD AT = $ value entered
BID INCREMENT BARS = valus beginning with value entered
Output data to Bidder 1.reset bid button$ 2.activity log Fig 13F
BIDSYS
BIDDER = floor bidder
CURRENT MONEY = value entered
ACTIVITY LOG MESSAGE = floor bidder holds nn for $value
BID BUTTON = $ value + $100
Wait for next Clerk or Bidder entry

Figure 13D

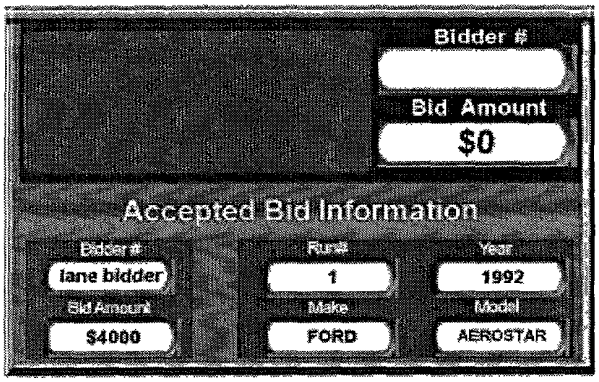


Figure 13E

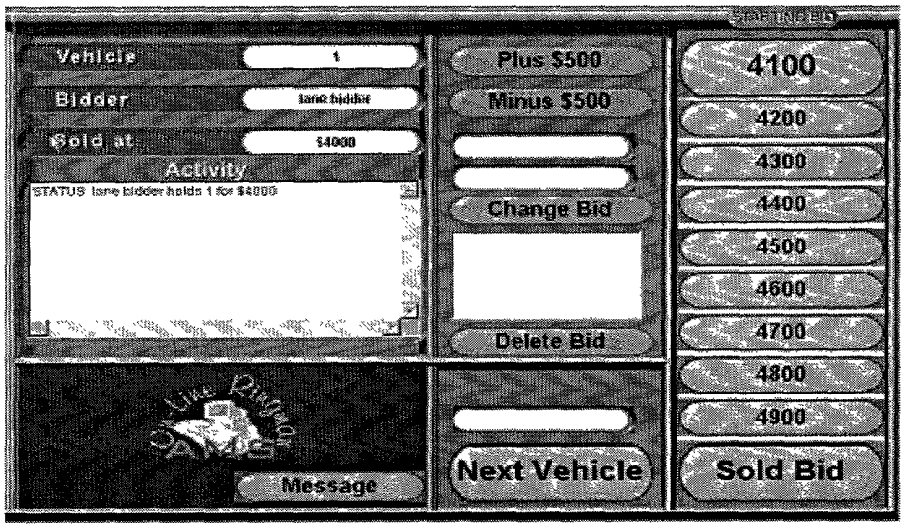
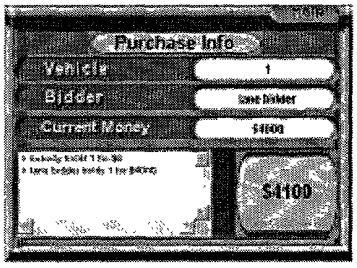


Figure 13F



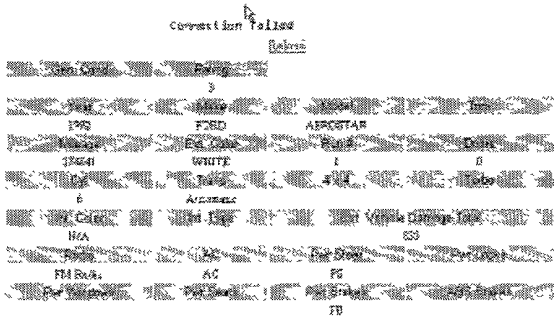


Figure 15

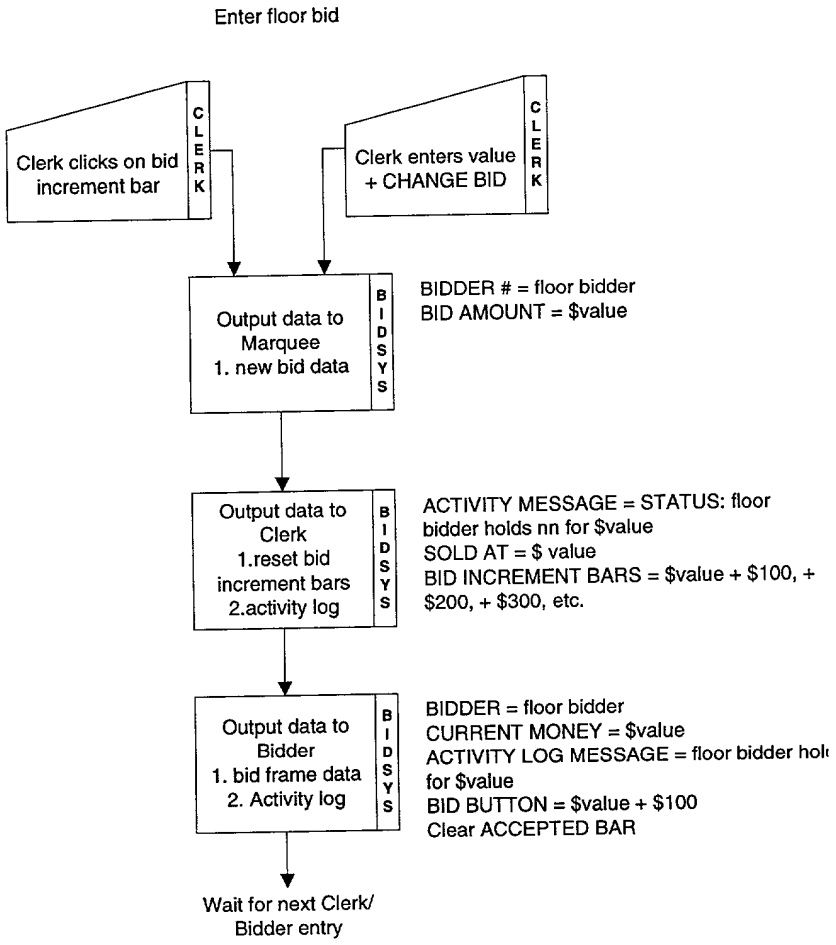

Enter floor bid
Clerk clicks on bid increment bar
CLERK
Clerk enters value + CHANGE BID
CLERK
Output data to Marquee
1. new bid data
BIDSYS
BIDDER # = floor bidder
BID AMOUNT = $value
Output data to Clerk
1.reset bid increment bars
2.activity log
BIDSYS
ACTIVITY MESSAGE = STATUS: floor bidder holds nn for $value
SOLD AT = $ value
BID INCREMENT BARS = $value + $100, + $200, + $300, etc.
Output data to Bidder
1. bid frame data
2. Activity log
BIDSYS
BIDDER = floor bidder
CURRENT MONEY = $value
ACTIVITY LOG MESSAGE = floor bidder hol
for $value
BID BUTTON = $value + $100
Clear ACCEPTED BAR
Wait for next Clerk/ Bidder entry

Figure 16

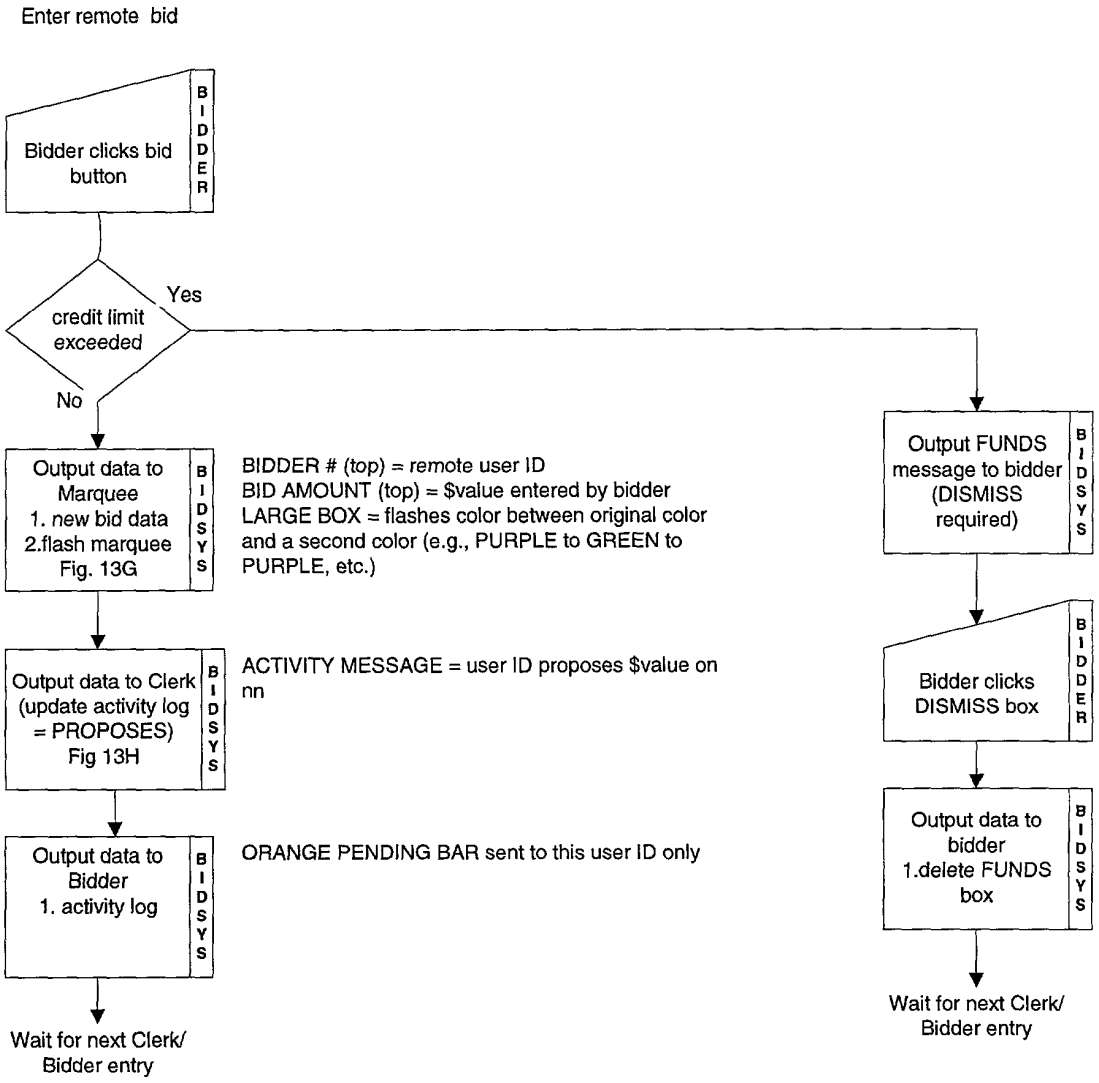

Enter remote bid
Bidder clicks bid button
BIDDER
credit limit exceeded
Yes
No
Output data to Marquee
1. new bid data
2.flash marquee
Fig. 13G
BIDSYS
BIDDER # (top) = remote user ID
BID AMOUNT (top) = $value entered by bidder
LARGE BOX = flashes color between original color and a second color (e.g., PURPLE to GREEN to PURPLE, etc.)
Output data to Clerk (update activity log = PROPOSES)
Fig 13H
ACTIVITY MESSAGE = user ID proposes $value on nn
Output data to Bidder
1. activity log
ORANGE PENDING BAR sent to this user ID only
Wait for next Clerk/ Bidder entry
Output FUNDS message to bidder (DISMISS required)
Bidder clicks DISMISS box
Output data to bidder
1.delete FUNDS box
Wait for next Clerk/ Bidder entry

Figure 13G

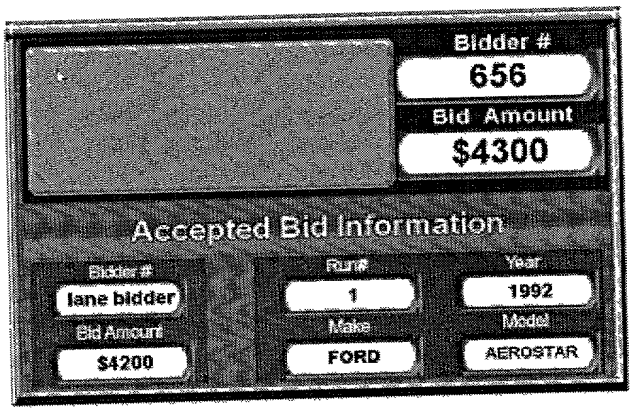


Figure 13H

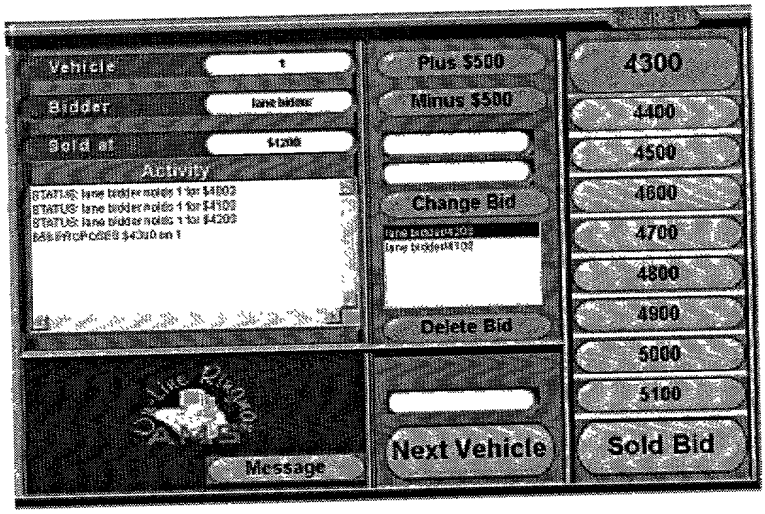


Figure 17

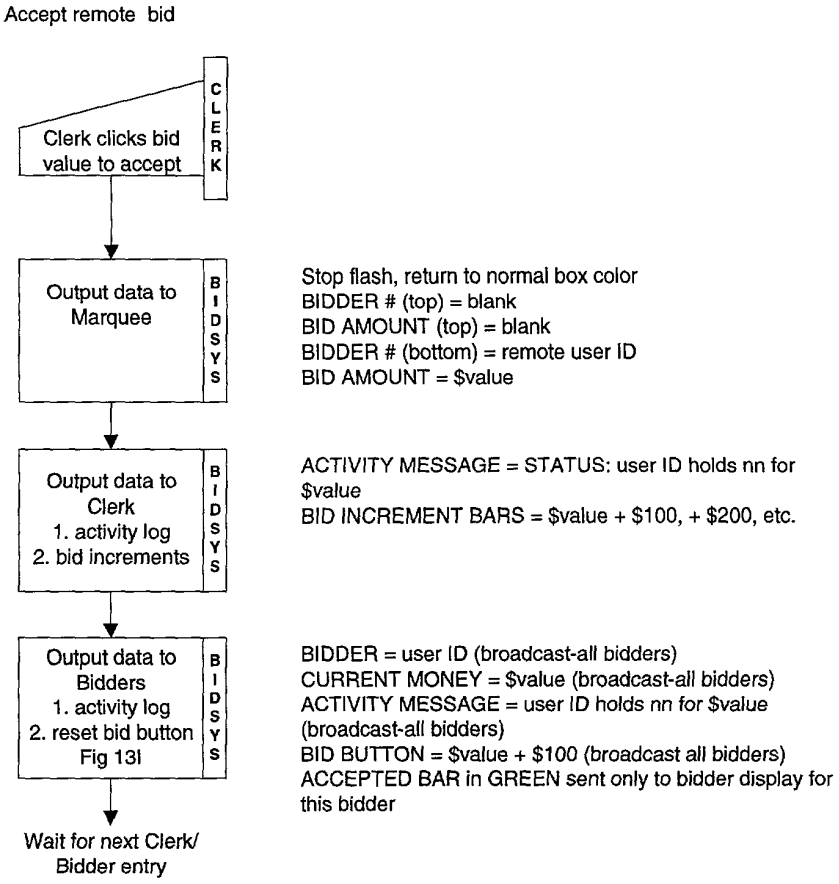

Accept remote bid
Clerk clicks bid value to accept
CLERK
Output data to Marquee
BIDSYS
Stop flash, return to normal box color
BIDDER # (top) = blank
BID AMOUNT (top) = blank
BIDDER # (bottom) = remote user ID
BID AMOUNT = $value
Output data to Clerk
1. activity log
2. bid increments
BIDSYS
ACTIVITY MESSAGE = STATUS: user ID holds nn for $value
BID INCREMENT BARS = $value + $100, + $200, etc.
Output data to Bidders
1. activity log
2. reset bid button
Fig 13I
BIDSYS
BIDDER = user ID (broadcast-all bidders)
CURRENT MONEY = $value (broadcast-all bidders)
ACTIVITY MESSAGE = user ID holds nn for $value (broadcast-all bidders)
BID BUTTON = $value + $100 (broadcast all bidders)
ACCEPTED BAR in GREEN sent only to bidder display for this bidder
Wait for next Clerk/ Bidder entry

Figure 13I

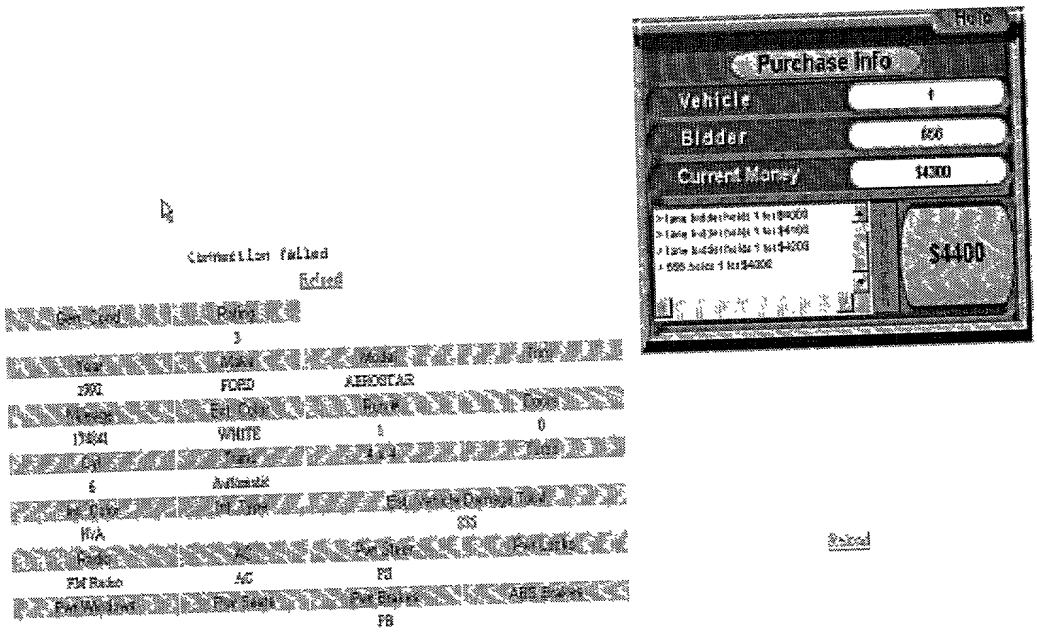
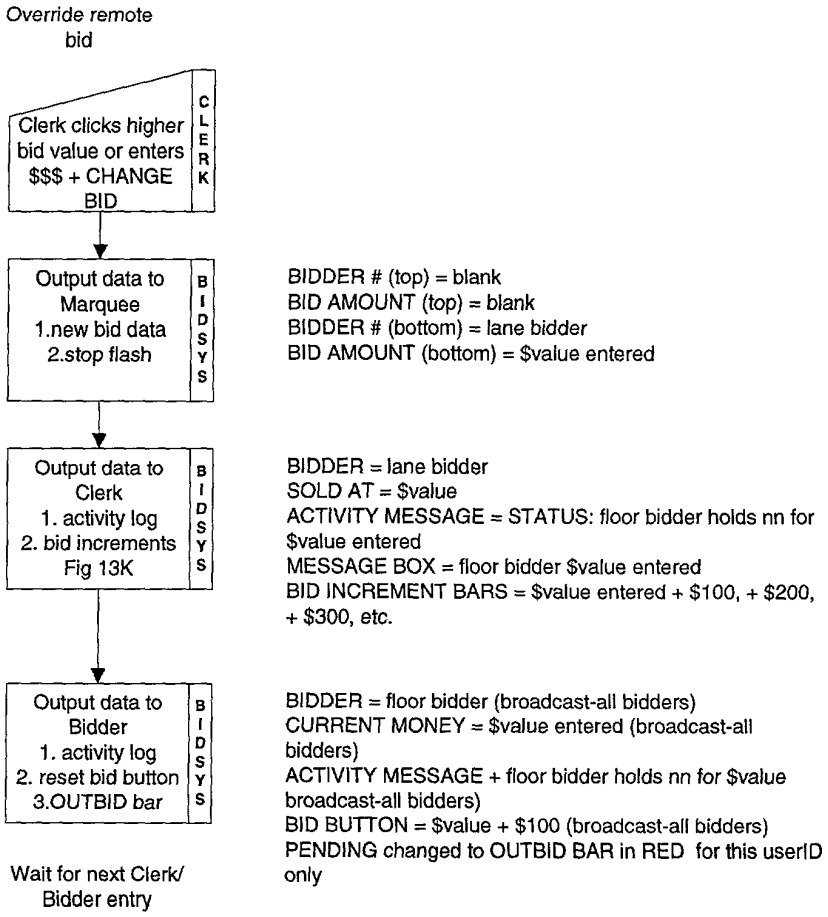
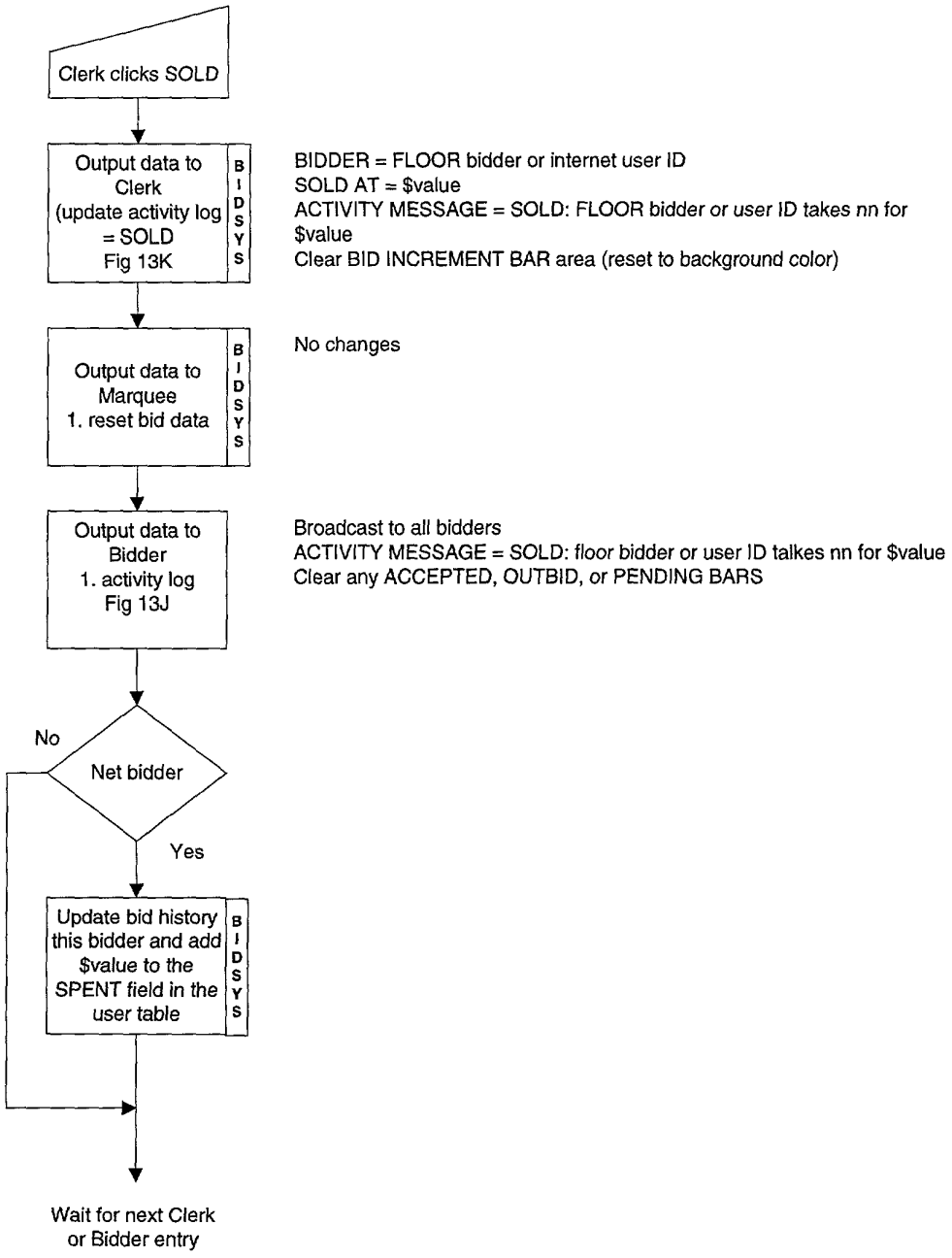

Purchase Info
Vehicle
Bidder
Current Money
$4300
$4400
FORD
AEROSTAR
WHITE
Automatic
N/A
AC
PB

Figure 18



D9805434 - 050504

Figure 19



5,960,411 - 5,970,482

Figure 13J

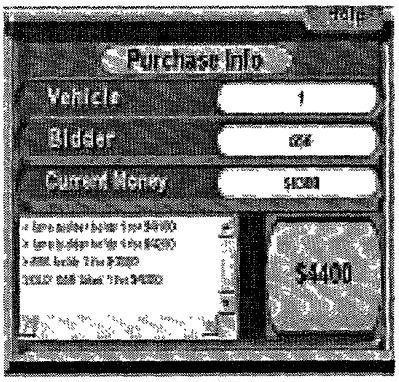


Figure 13K

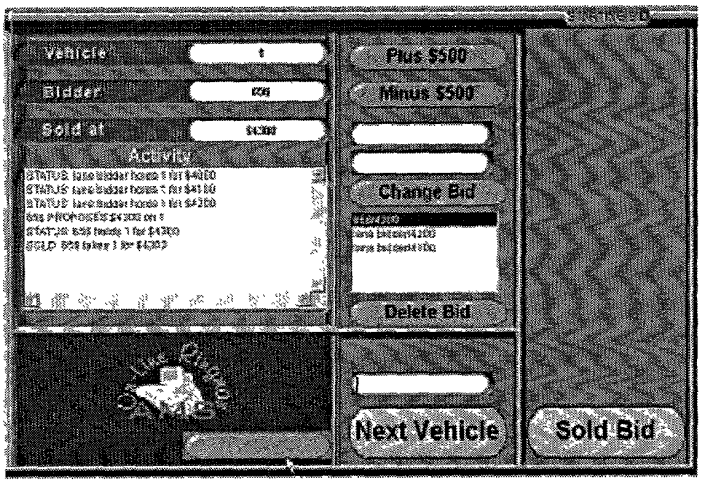


Figure 20

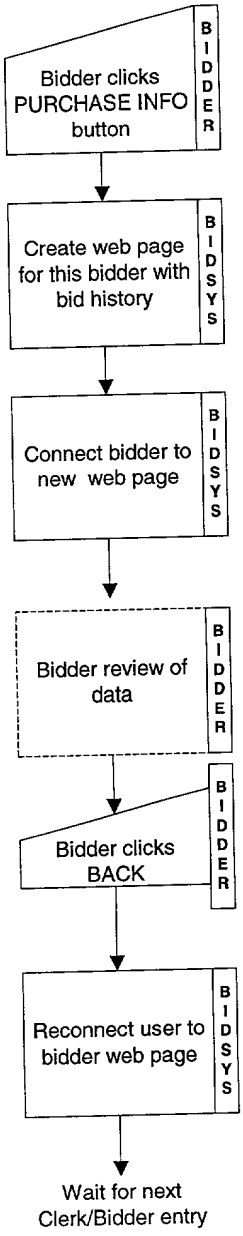

Bidder clicks PURCHASE INFO button
BIDDER
Create web page for this bidder with bid history
BIDSYS
Connect bidder to new web page
BIDSYS
Bidder review of data
BIDDER
Bidder clicks BACK
BIDDER
Reconnect user to bidder web page
BIDSYS
Wait for next Clerk/Bidder entry

Figure 21

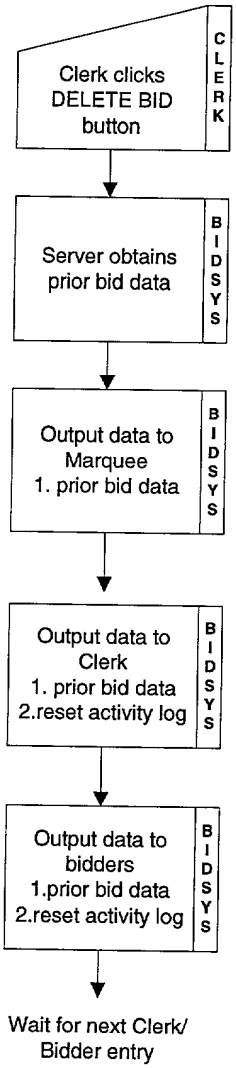

Clerk clicks DELETE BID button
CLERK
Server obtains prior bid data
BIDSYS
Output data to Marquee 1. prior bid data
BIDSYS
Output data to Clerk 1. prior bid data 2.reset activity log
BIDSYS
Output data to bidders 1.prior bid data 2.reset activity log
BIDSYS
Wait for next Clerk/ Bidder entry

Figure 22

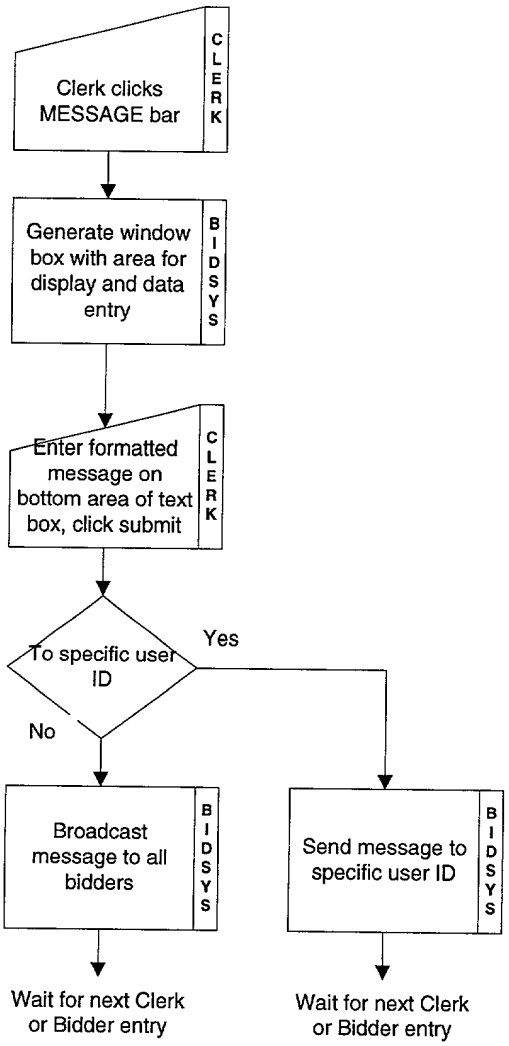
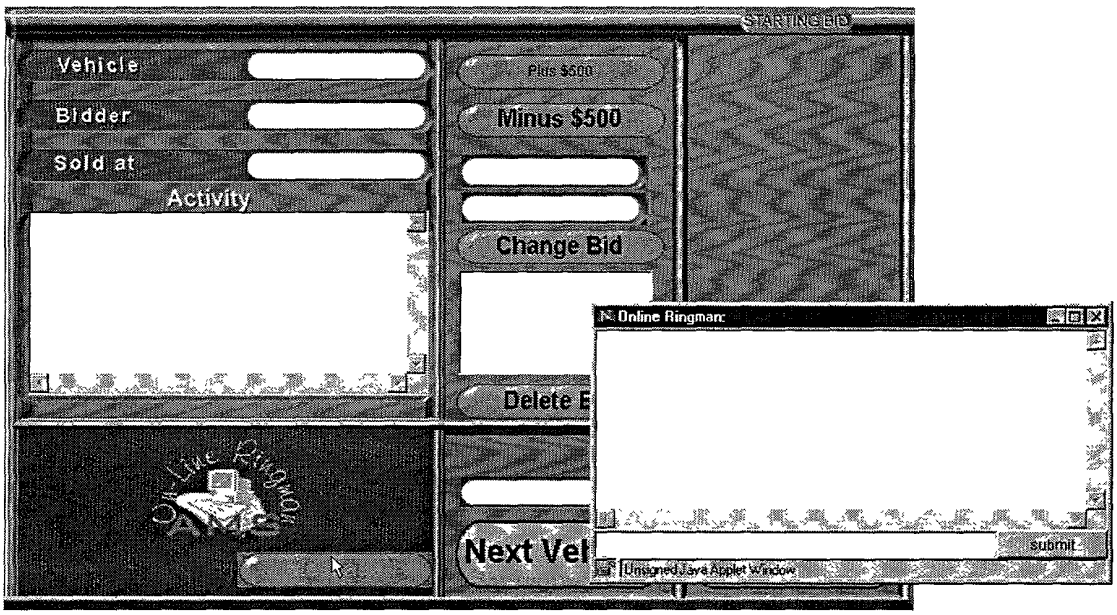

Clerk clicks MESSAGE bar
CLERK
Generate window box with area for display and data entry
BIDSYS
Enter formatted message on bottom area of text box, click submit
CLERK
To specific user ID
Yes
No
Broadcast message to all bidders
BIDSYS
Send message to specific user ID
BIDSYS
Wait for next Clerk or Bidder entry
Wait for next Clerk or Bidder entry

Figure 22A



3054-3530

Figure 23A

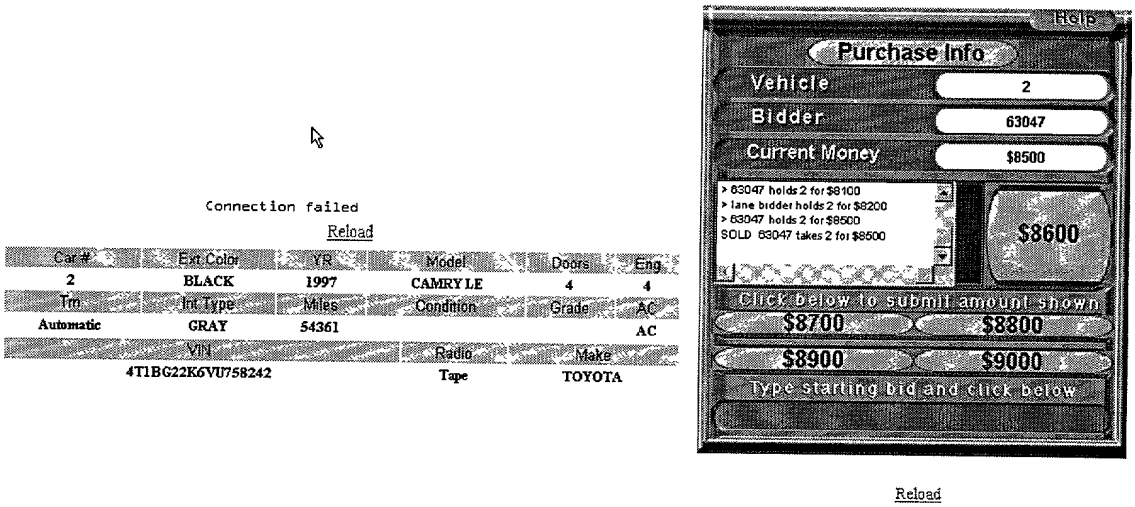


Figure 23B

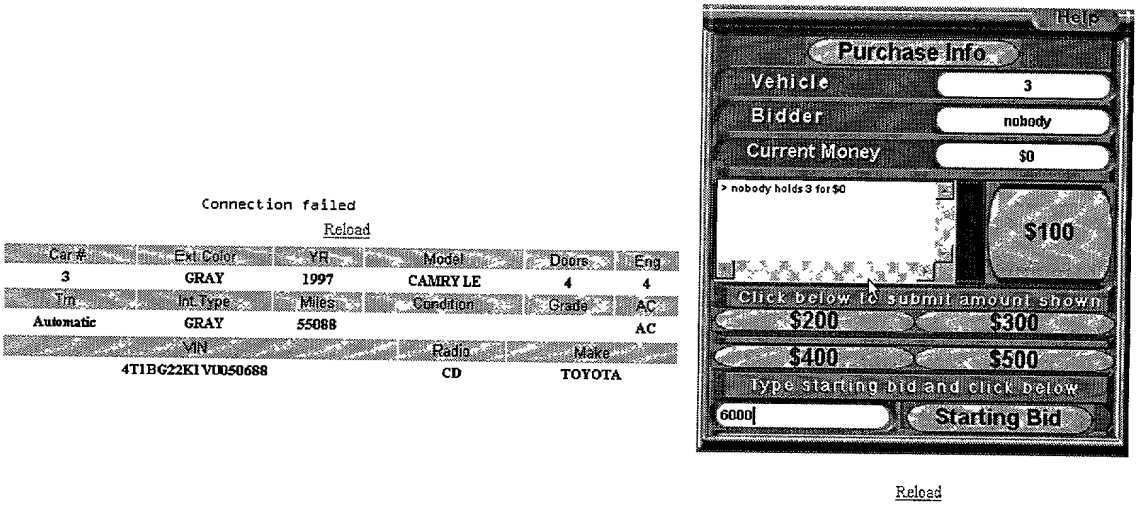
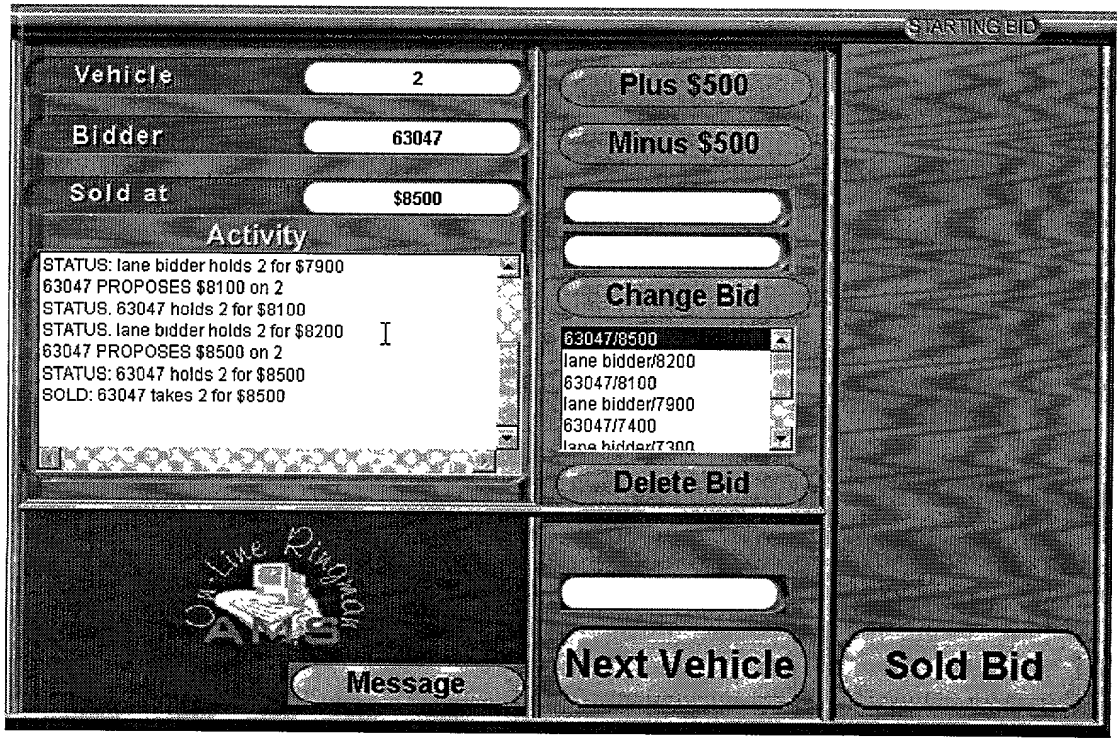


Figure 23C



Reload

5,960,411 - 5,970,469

Figure 24A

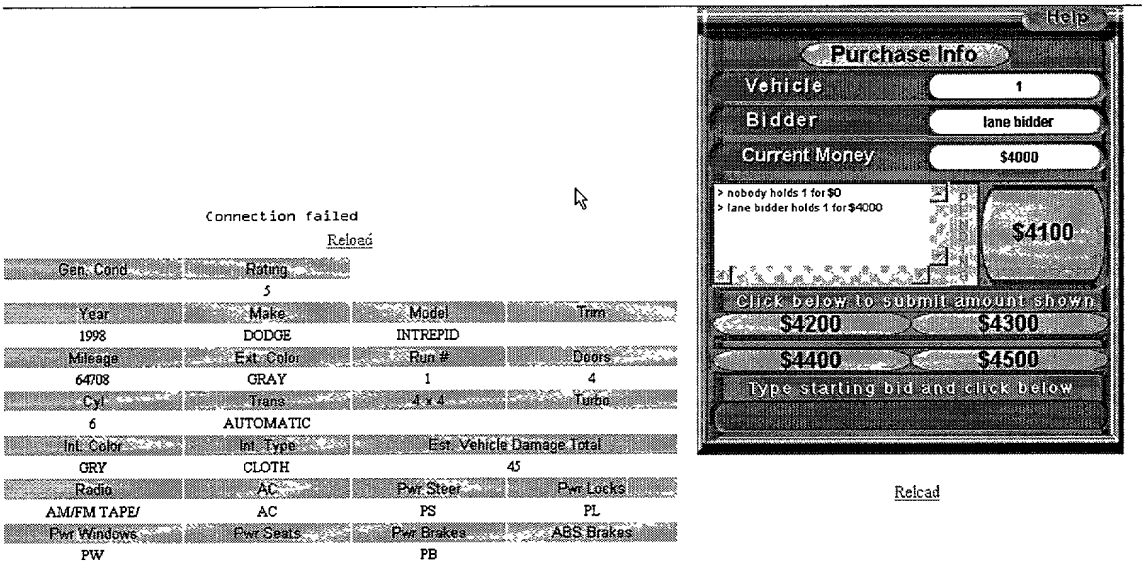


Figure 24B

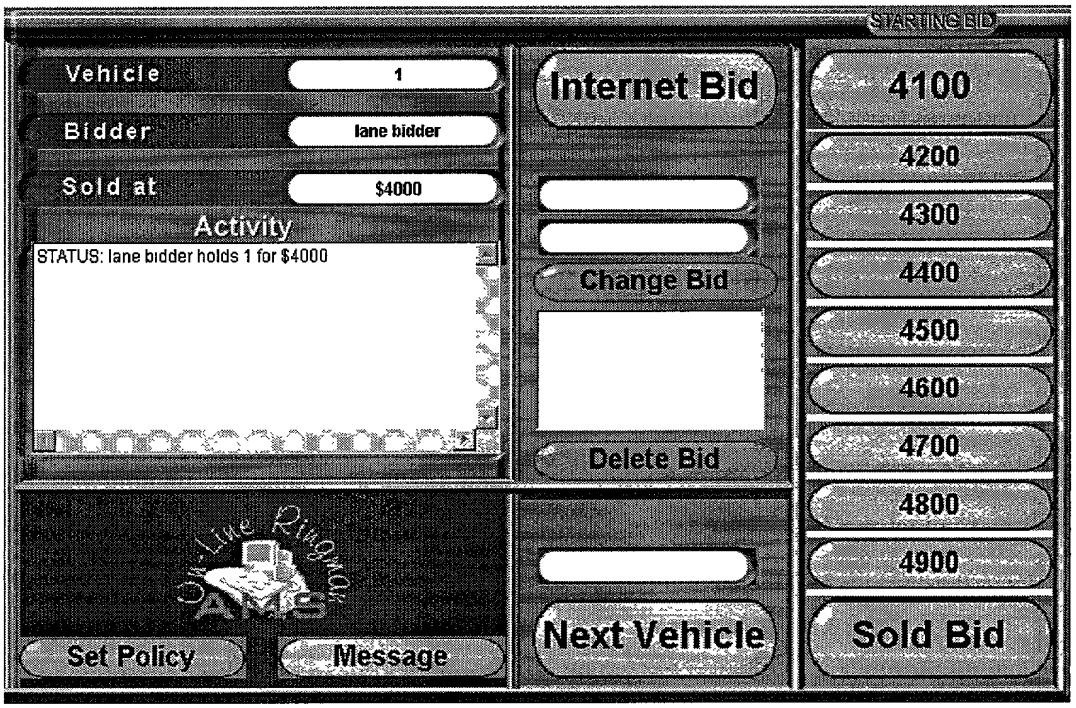


Figure 25A

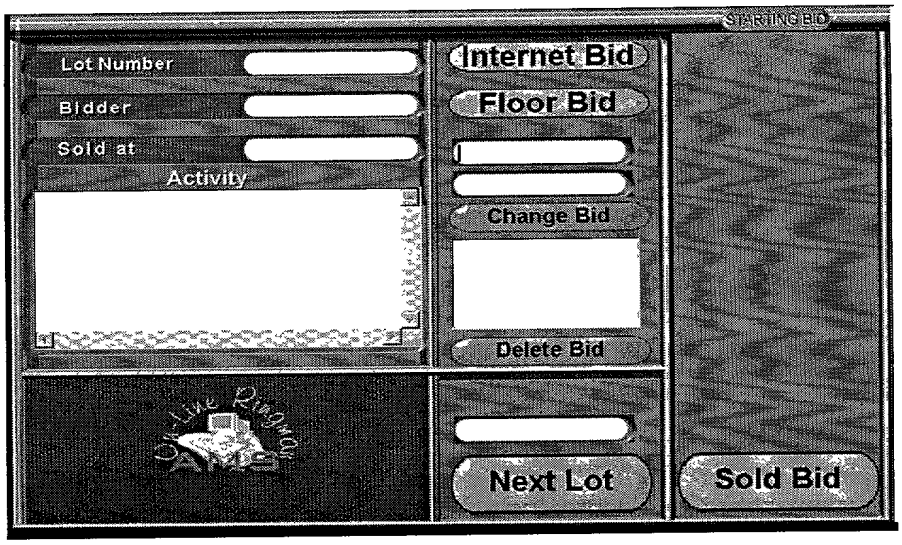


Figure 25B

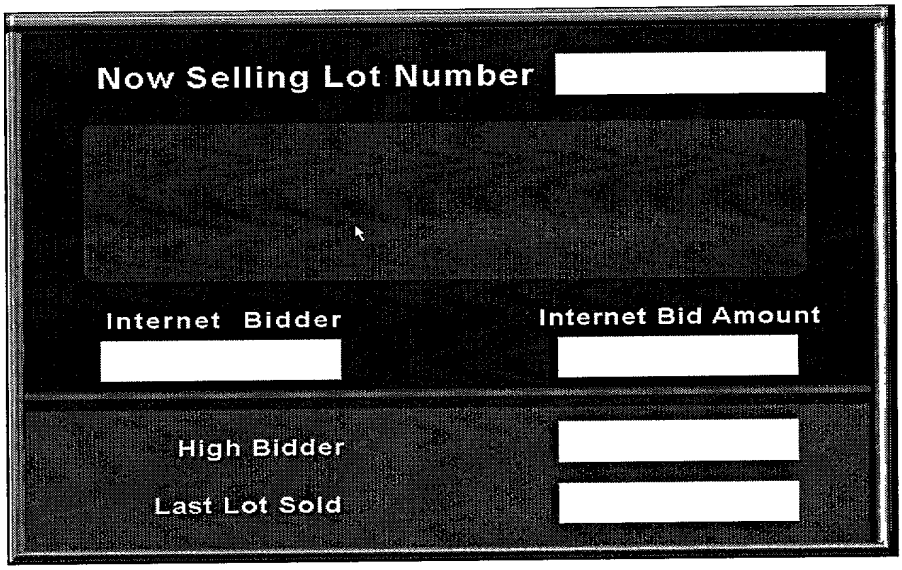
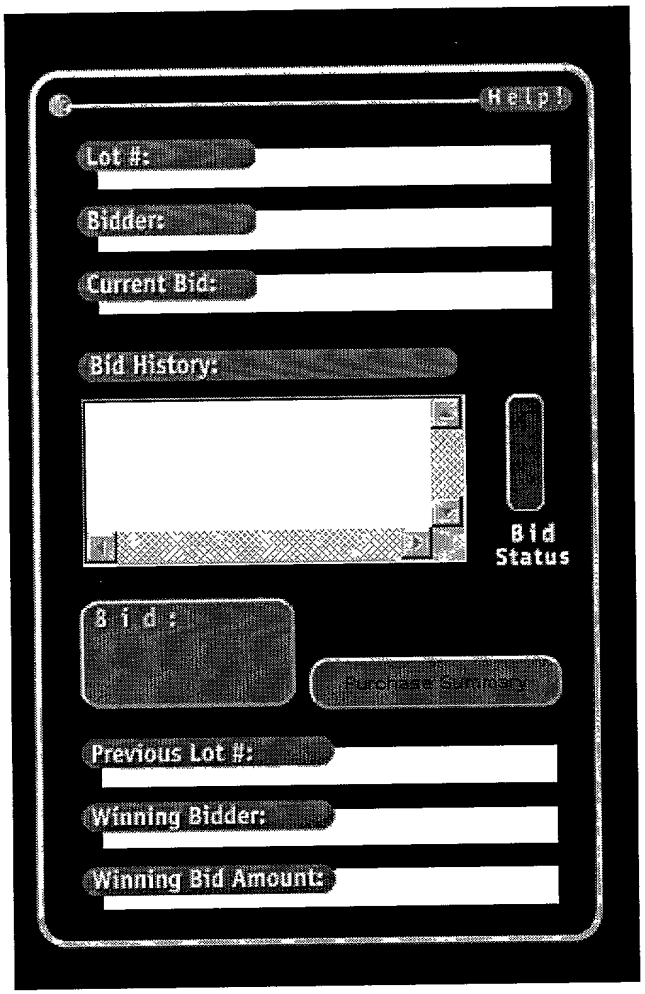
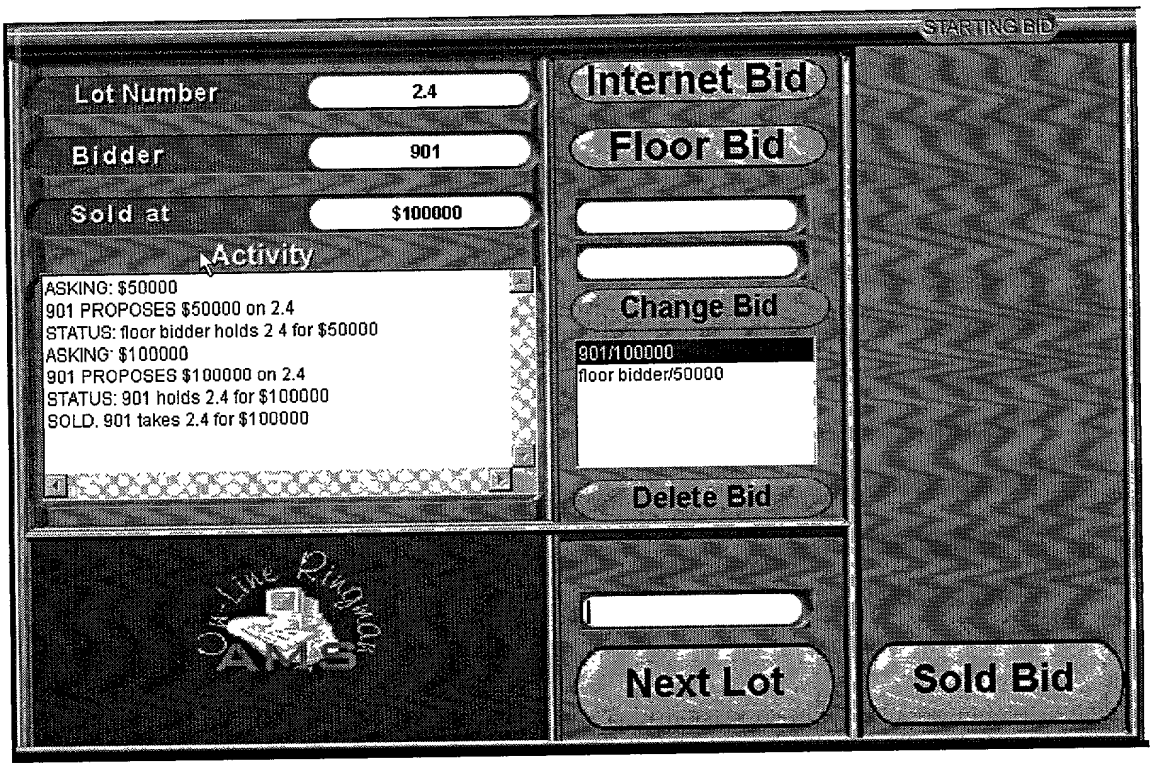


Figure 25C



Sotheby's Exhibit

Figure 26



Docket No. 0606.1

Figure 27

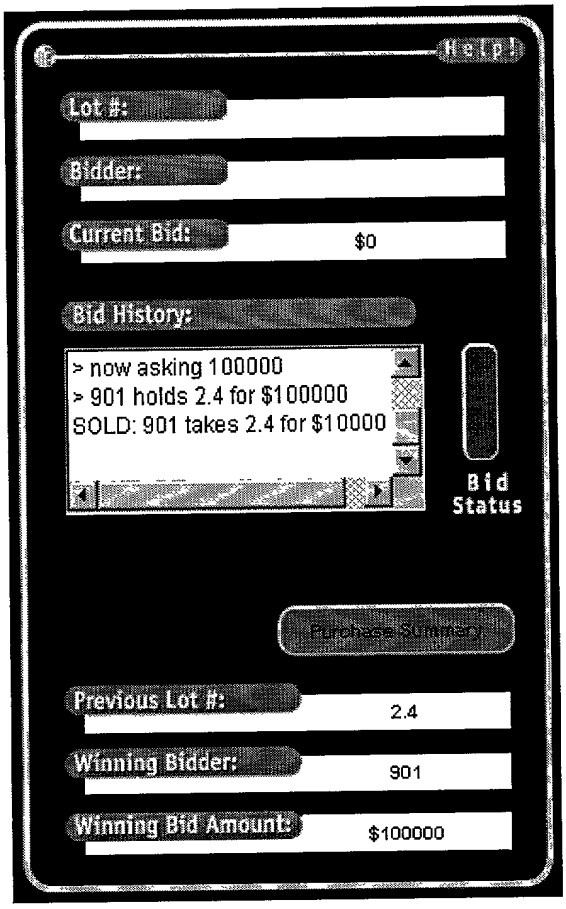

Help
Lot #:
Bidder:
Current Bid:
$0
Bid History:
> now asking 100000
> 901 holds 2.4 for $100000
SOLD: 901 takes 2.4 for $10000
Bid Status
Purchase Summary
Previous Lot #:
2.4
Winning Bidder:
901
Winning Bid Amount:
$100000

Figure 28

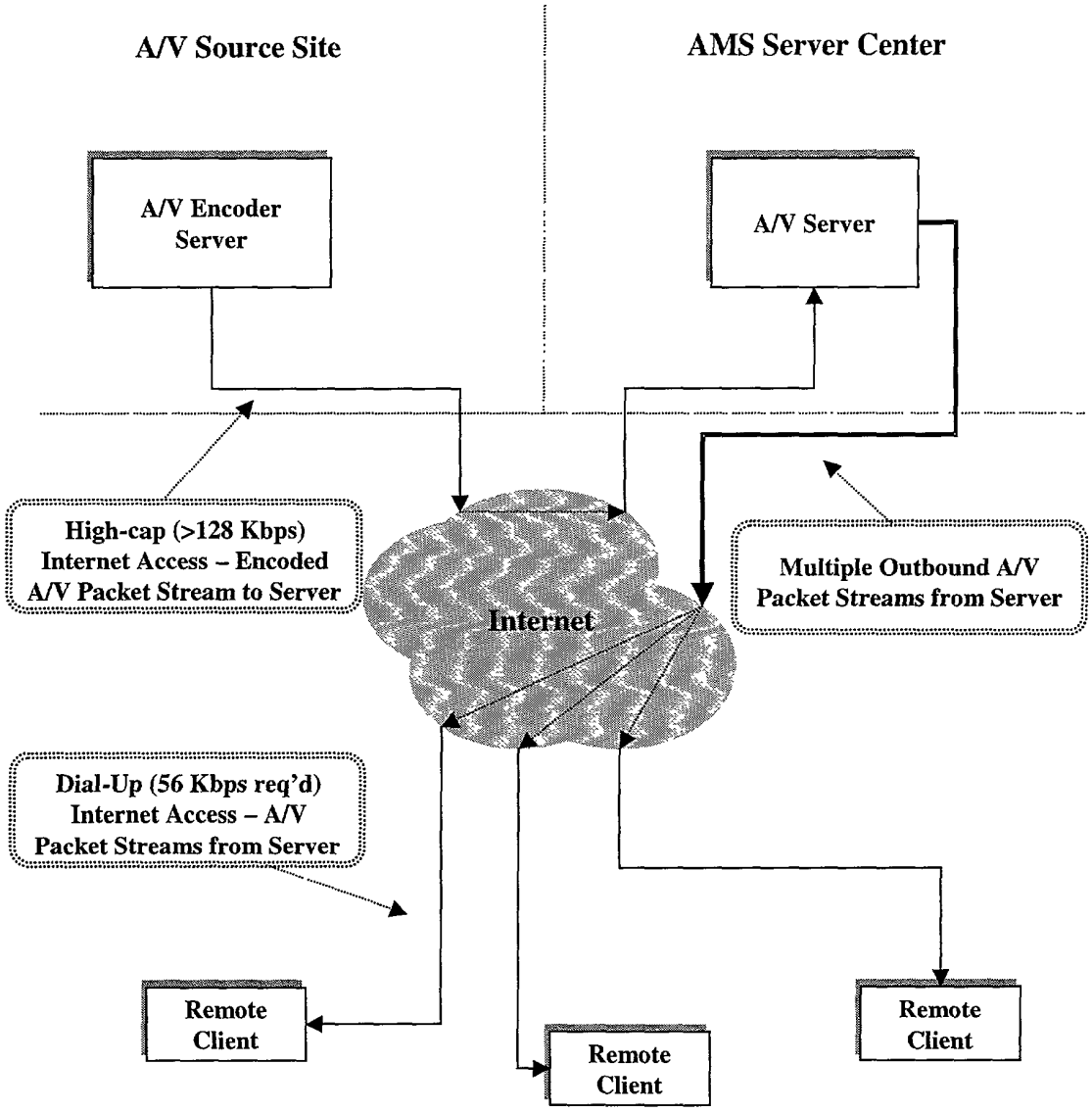
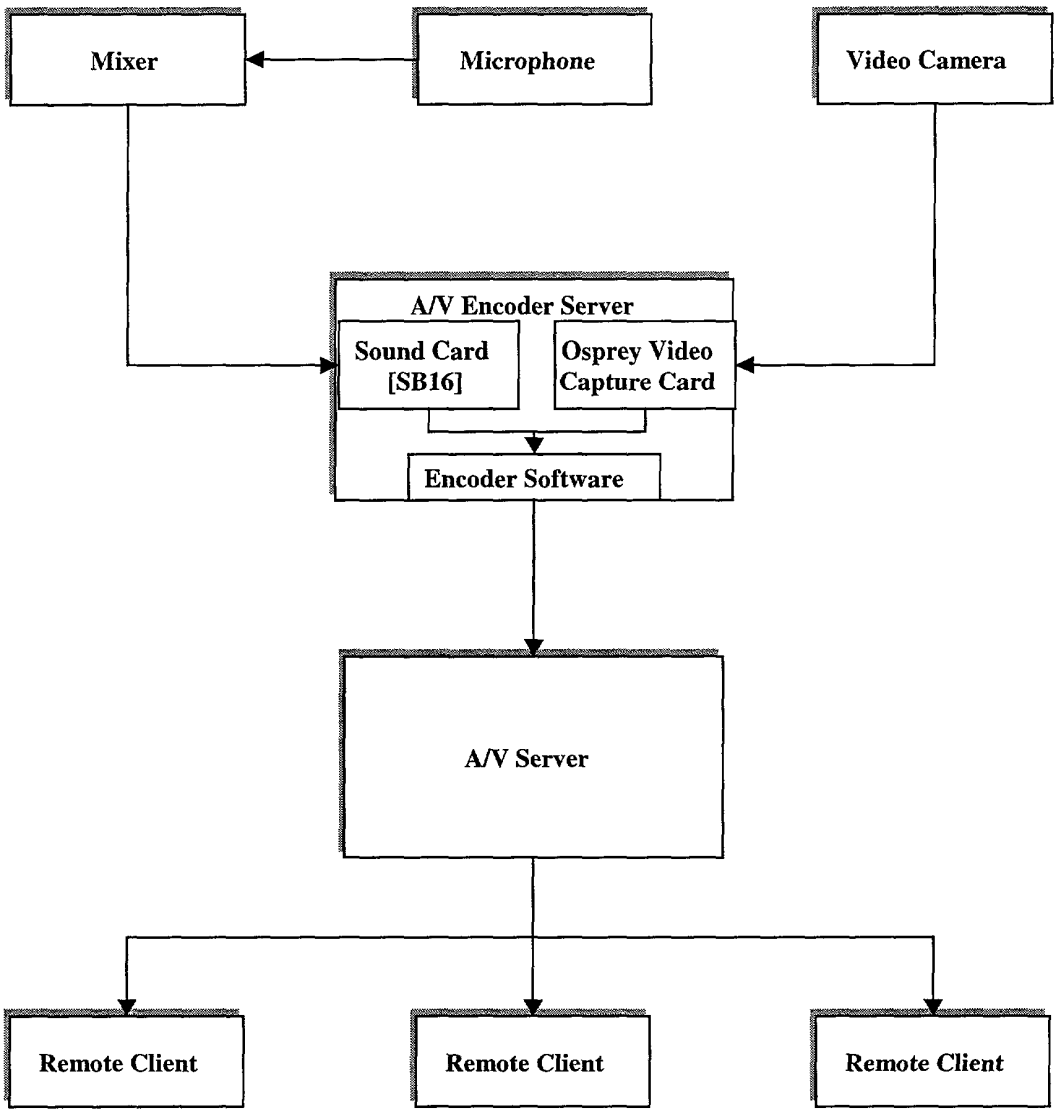

A/V Source Site
AMS Server Center
A/V Encoder Server
A/V Server
High-cap (>128 Kbps) Internet Access – Encoded A/V Packet Stream to Server
Internet
Multiple Outbound A/V Packet Streams from Server
Dial-Up (56 Kbps req'd) Internet Access – A/V Packet Streams from Server
Remote Client
Remote Client
Remote Client

Figure 29


Mixer
Microphone
Video Camera
A/V Encoder Server
Sound Card [SB16]
Osprey Video Capture Card
Encoder Software
A/V Server
Remote Client
Remote Client
Remote Client